

# EXHIBIT C

1                   IN THE UNITED STATES DISTRICT COURT  
2                   FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA  
3                   CHARLESTON DIVISION

4           IN RE:    ETHICON, INC.       Master File No. 2:12-MD-02327  
5           PELVIC REPAIR SYSTEM       MDL No. 2327  
6           PRODUCTS LIABILITY         JOSEPH R. GOODWIN  
7           LITIGATION                 U.S. DISTRICT JUDGE

8           \_\_\_\_\_/

9           Brenda Riddell  
10          2:12-cv-00547  
11          Dina Sanders Bennett  
12          -cv-00497

13          Beverly Kivel  
14          2:12-cv-00591  
15          Barbara Kaiser  
16          -cv-0887

17          Shirley Walker  
18          2:12-cv-00873  
19          Pamela Free  
20          -cv-00423

21   SALIL KHANDWALA, M.D.  
22   March 25, 2016

23   March 25, 2016

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2 PAGE 1 TO 216

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4 The Deposition of SALIL KHANDWALA, M.D.,

5 Taken at 22731 Newman Street,

6 Dearborn, Michigan,

7 Commencing at 9:00 a.m.,

8 Friday, March 25, 2016,

9 Before Laurel A. Frogner, RMR, CRR, CSR-2495.

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1 Dearborn, Michigan

2 Friday, March 25, 2016

3 About 9:00 a.m.

4 SALIL KHANDWALA, M.D.,

5 having first been duly sworn, was examined

6 and testified on his oath as follows:

7 EXAMINATION BY MR. WOOL:

8 Q. Good morning, Dr. Khandwala.

9 A. Good morning.

10 Q. We briefly met before, but formally I'm David Wool. I  
11 represent the plaintiffs in this case. Can you briefly  
12 state your name and spell your name for the record.

13 A. My name is Dr. Salil Khandwala, spelled S-a-l-i-l last  
14 name K-h-a-n-d-w-a-l-a.

15 Q. Okay. And is there any reason that you would be unable  
16 to answer truthfully or give complete answers this  
17 morning to any questions?

18 A. No.

19 Q. Okay. And you were sworn in, and you understand that  
20 you're under oath?

21 A. Yes.

22 ATTORNEY ON TELEPHONE: I'm sorry to  
23 interrupt. Is there any way to turn up the volume on  
24 the phone on your end at all?



1 (An off-the-record discussion was held.)

2 BY MR. WOOL:

3 Q. Doctor, I imagine that you've been deposed before, but  
4 just a couple of housekeeping things. Briefly, I'm  
5 going to ask questions. If your counsel, Mr. Walker,  
6 objects, he'll make an objection, and then after he  
7 finishes, then you can answer the question. And I'll do  
8 my best not to talk over you. I would appreciate if  
9 you'd do the same. And if any question is unclear or  
10 you don't understand anything, just ask me to clarify,  
11 and I'd be happy to do so. Does that make sense?

12 A. Yes.

13 Q. Okay. So I'm going to hand you what will be marked as  
14 Exhibit 1. This is your Notice of Deposition.

15 KHANDWALA DEPOSITION EXHIBIT NUMBER 1,  
16 NOTICE OF DEPOSITION  
17 WAS MARKED BY THE REPORTER  
18 FOR IDENTIFICATION

19 BY MR. WOOL:

20 Q. Do you recognize this notice?

21 A. Yes.

22 Q. Okay. And in Exhibit 1 it requests that you bring some  
23 documents with you. Did you bring those documents with  
24 you today?

1 A. Yes.

2 Q. Okay. Did you bring all the documents?

3 A. All that I could get my hand on.

4 Q. And those are --

5 MR. WALKER: And let me just interrupt for a  
6 second and state on the record that we are expecting a  
7 thumb drive to be delivered approximately around 10:30  
8 this morning that will contain a digital copy of all of  
9 his reliance materials. We have some of his materials  
10 printed in hard copy for counsel, but all of it will be  
11 on that flash drive.

12 BY MR. WOOL:

13 Q. Okay. Now, what did you bring with you today?

14 A. I got my CV, and I think it requested expense -- my CV  
15 and the itemized expense for preparation along with the  
16 thumb drive that he just mentioned.

17 Q. Okay. And the articles are all of your reliance  
18 materials?

19 A. Yes.

20 Q. Okay. Now, are there any opinions that you're offering  
21 today that are not included in your expert report?

22 A. It depends upon what you ask me.

23 Q. I guess --

24 A. I have a lot of knowledge, it's just not based upon a

1           few articles I can just furnish. So I have been  
2           gathering this knowledge over decades.

3                       MR. WALKER: And let me just state that the  
4           doctor is prepared to offer opinions on the adequacy of  
5           the warnings in the IFU and any opinions pertaining to  
6           biocompatibility, specifically cytotoxicity or  
7           degradation, I don't believe those words are  
8           specifically referenced in the report, but he is  
9           prepared to offer opinions on those topics as well.

10       BY MR. WOOL:

11       Q.    Okay. So there are opinions that you plan to offer at  
12           trial or in this litigation that are not referenced in  
13           your report?

14       A.    That's correct.

15       Q.    Okay. Any reason that those weren't included in your  
16           report?

17       A.    They are actually included in the report, and just the  
18           words such as safe and effective, but that encompasses a  
19           lot, so if you ask me specifics about safe and  
20           effective, I can talk more about it. So, in other  
21           words, it's elaborating more on that, so it's a general  
22           word that I have used in the report because I could not  
23           make a 100-page report, but there are several things  
24           that I could discuss.

1 Q. So I guess when you're saying safe and effective, does  
2 that refer to warnings as well?

3 A. Yes.

4 Q. Okay. And does that refer specifically to the  
5 Instructions For Use?

6 A. It's everything, it could be referring to Instructions  
7 For Use, what the material is, the material science, and  
8 things like that.

9 Q. Now, let's go over your background briefly. Now, is  
10 this the first time you've been asked to give testimony  
11 or give opinions for a medical device company?

12 A. No.

13 Q. Okay. On how many other cases have you been hired as an  
14 expert?

15 A. I'd say about four or five, something in that ballpark.

16 Q. How many for transvaginal mesh manufacturers?

17 A. Four, it's the same, all were for transvaginal mesh.

18 MR. WALKER: And, counsel, just to clarify,  
19 are you asking if he's offered testimony or if he's just  
20 been retained?

21 BY MR. WOOL:

22 Q. If he has been retained as an expert.

23 MR. WALKER: Thank you.

24 MR. WOOL: Okay.

1 BY MR. WOOL:

2 Q. That leads me to my next question. So how many cases  
3 have you offered expert testimony in?

4 A. This would be my second case, or third case.

5 Q. Okay. And you have been deposed before?

6 A. Yes.

7 Q. Okay. Can I ask what manufacturers retained you as an  
8 expert?

9 A. It is -- actually it was not the manufacturer, but it  
10 was more the doctor's attorney, so I should take it back  
11 and say it was American Medical System, it was Elevate  
12 mesh, but I was defending the physician, and in the past  
13 it was Ethicon for a different case.

14 Q. So Ethicon and AMS?

15 A. Yes.

16 Q. And just so that I'm clear, the AMS case, was that a  
17 medical malpractice case?

18 A. Yes.

19 Q. And you were just defending the physician, you weren't  
20 representing the company at all?

21 A. That is correct.

22 Q. Okay. Now, when were you first contacted to be an  
23 expert for Ethicon in this litigation?

24 MR. WALKER: Just to clarify, are you talking

1 about the Wave 1 or any Ethicon case?

2 BY MR. WOOL:

3 Q. Any Ethicon case.

4 A. I think it was two years ago.

5 Q. Two years ago?

6 A. I think.

7 Q. So 2014?

8 A. Somewhere thereabouts.

9 Q. End of 2014, middle?

10 A. You know, I think it was summer, so maybe about June  
11 of 2014.

12 Q. And were you contacted again about being retained as an  
13 expert in the Wave 1 cases?

14 A. Yes.

15 Q. And when did that happen?

16 A. I think about four months ago.

17 Q. About four months ago, okay. And who contacted you?

18 A. I don't recall exactly, maybe it was Mr. Moriarty.

19 Q. And you don't remember exactly, that's just to the best  
20 of your recollection?

21 A. Yeah, most likely, most likely it's Mr. Moriarty, but  
22 I'm not sure exactly.

23 Q. Now, when did you first receive materials to review for  
24 these cases, the Wave 1 cases?

1 A. I think around that time they started coming in.

2 Q. Okay. Approximately how much time did you spend  
3 reviewing those materials?

4 A. I think I've mentioned in that handout there on your  
5 right side, the second page on the right side.

6 Q. Okay. Okay. And just approximate for the record, if  
7 you don't mind.

8 A. Could you please tell me. I don't recall exactly.

9 Q. Okay. It says 102 hours.

10 A. Okay, that's specific, then, 102 hours.

11 Q. So 102 hours reviewing materials, correct?

12 A. And I also did an independent medical examination on a  
13 patient.

14 Q. Okay, and four and a half hours of phone calls, correct?

15 A. That's correct.

16 Q. Okay. And your hourly rate is 500 an hour, correct?

17 A. Yes.

18 Q. Okay. And do you charge a specific amount or an  
19 additional amount for depositions?

20 A. Yes, I believe that's on that paper, too, I think it's  
21 \$600 an hour; is that correct?

22 Q. I'm not seeing.

23 A. It's on the next page.

24 Q. Oh, okay.

1 A. If it doesn't state that, I think it's \$600 an hour.

2 Q. Okay. I guess what I'm seeing on this case is \$500 an  
3 hour for review. I don't think I see it.

4 A. For the dep -- okay.

5 Q. I don't think I see the \$600 an hour. Okay. So  
6 approximately how much time did you spend preparing your  
7 general report?

8 A. Have I specified on that?

9 MR. WALKER: Can he look at that to refresh  
10 his recollection?

11 BY MR. WOOL:

12 Q. Yes.

13 A. Thank you. Six hours.

14 Q. Approximately six hours. Okay. And how much time did  
15 you spend meeting with defense counsel?

16 A. Four and a half hours on the phone and about 8 to 10  
17 hours maybe.

18 Q. And does that invoice right there, does that contain all  
19 the time that you've spent recently in the past day or  
20 two preparing as well?

21 A. No, this is only up to March 8th.

22 Q. Okay. So following March 8th, approximately how much  
23 time have you spent reviewing?

24 A. You know, I haven't tabulated it, I've just been looking



1 at it. I've not totaled it up.

2 Q. What's your best sort of ballpark figure?

3 A. Maybe about 25 to 30 hours.

4 Q. Okay.

5 A. That's not just discussing but reviewing, you know, the  
6 documents and going over cases and things.

7 Q. Okay. And approximately how much time meeting with  
8 defense counsel?

9 A. About I would say 10 to 12 hours.

10 Q. 10 to 12 hours? Approximately how much time yesterday  
11 did you meet with Mr. Walker?

12 A. Three hours, because I was in surgeries in the morning,  
13 and then I met him in the afternoon.

14 Q. And approximately how much time this morning?

15 A. About an hour.

16 Q. Okay. And could I see that?

17 A. Sure.

18 Q. And so if I remember correctly, you've received  
19 approximately \$54,000 total to date?

20 A. No.

21 Q. Or you've invoiced \$54,000?

22 A. Yes.

23 Q. Excuse me. And is that for your general opinions or  
24 that's everything?

1 A. That's as mentioned on the right side, the right page,  
2 it's everything, it's broken down per case and also the  
3 general opinion.

4 Q. Okay.

5 A. As you can see, it's six hours at the bottom on the  
6 right page is six hours Prolift write-up.

7 Q. And that six hours for the Prolift write-up, that's the  
8 Prolift and the Prolift+M?

9 A. That's correct.

10 Q. Okay. Let's see, and have you prepared reports in any  
11 other mesh cases not Ethicon specific?

12 A. When I did the deposition for the AMS Elevate case I did  
13 look at their mesh.

14 Q. And for other depositions related to all mesh  
15 manufacturers, I believe you said you had testified once  
16 as an expert?

17 A. Yes.

18 Q. So one other deposition. Did you testify at that trial?

19 A. No.

20 Q. No? Okay. And so would it be fair to characterize your  
21 prior testimony as being exclusively for defendants?

22 A. Yes.

23 Q. Okay. Now, have you ever consulted for other mesh  
24 manufacturers?

1 A. Yes.

2 Q. What other manufacturers?

3 A. AMS, which is American Medical Systems, and changed its  
4 name to Astora, A-s-t-o-r-a, and Coloplast,  
5 C-o-l-o-p-l-a-s-t.

6 Q. Okay. And approximately how much compensation did you  
7 receive from AMS?

8 A. I'm sorry, I don't know the exact figure, it all depends  
9 upon -- I was a consultant for the product at the same  
10 time a clinical trial that I was doing.

11 Q. So if you had to guess the amount of income you received  
12 from --

13 A. I'm under oath, I just can't guess a number, I can't  
14 give --

15 Q. I'm just asking you to approximate.

16 A. Well, maybe about 8 to \$10,000 at max for both the  
17 companies.

18 Q. Okay, so for each?

19 A. No, for both together, so about \$4,000 per company I  
20 would say.

21 Q. Okay, about \$4,000. Okay. And have you ever been a  
22 defendant in a case?

23 A. Yes.

24 Q. Tell me about that.

1       A.     It was a case, actually I have two cases, one was an  
2             ovarian cyst case that I was involved with, and there  
3             was a potential complication with the ovarian cyst, and  
4             there was a gynecologic oncologist who had done the case  
5             with me and I had done a sling, but since I was involved  
6             in the case, but I was eventually dropped. The second  
7             case was a vaginal mesh case that, you know, they filed  
8             and they looked at the documents, and eventually they  
9             dropped the case.

10       Q.     Okay. So in both cases the case was dropped?

11       A.     Yes.

12       Q.     Do you know if the case was dismissed or -- sorry,  
13             strike that. Do you know if a Judge dismissed the case  
14             on motion by defense counsel?

15       A.     No. The first was I was -- I had nothing to do with the  
16             first case because I had just done the sling, it was an  
17             intra-abdominal case, so it was more of the GYN  
18             oncologist case, so that's why I was dropped from the  
19             case. The second, the case -- the attorneys didn't  
20             proceed.

21       Q.     Okay. So they voluntarily dismissed you as a defendant?

22       A.     Yes, so they just dropped the case completely.

23       Q.     Okay. So let's go over your reliance list briefly and  
24             hand you -- I think you have a copy of that.

1 MR. WALKER: Do you have the one that we sent  
2 this week?

3 MR. WOOL: Yes, I was going to do both.

4 BY MR. WOOL:

5 Q. Let's mark this as 2 and this will be Exhibit 3.

6 KHANDWALA DEPOSITION EXHIBIT NUMBER 2,  
7 RELIANCE LIST IN ADDITION TO MATERIALS  
8 REFERENCED IN REPORT MDL WAVE 1  
9 WAS MARKED BY THE REPORTER  
10 FOR IDENTIFICATION

11 - - - - -

12 KHANDWALA DEPOSITION EXHIBIT NUMBER 3,  
13 KHANDWALA SUPPLEMENTAL RELIANCE LIST  
14 3.22.16 MEDICAL LITERATURE  
15 WAS MARKED BY THE REPORTER  
16 FOR IDENTIFICATION

17 BY MR. WOOL:

18 Q. Now, do both of those look like accurate copies of the  
19 reliance list that you've provided?

20 A. Yes.

21 Q. Okay. And does that include the whole of all the  
22 materials you relied on to make your report?

23 A. And as I told you, of course, a lot comes from my brain  
24 itself, you know, so I have read so much, so when I put

1 an article out, there is so much that comes out. So  
2 this is essentially the paper reference, as you may say,  
3 but there is a lot that could be just coming from  
4 within.

5 Q. Okay. So aside from your personal knowledge, does the  
6 reliance list in front of you contain all of the  
7 articles, studies that you've reviewed in drafting your  
8 general report?

9 A. That is correct.

10 Q. And forming your opinions?

11 A. Yes.

12 Q. Okay. Now, I just want to ask briefly because we  
13 received, I guess, an initial copy of the reliance list  
14 and then a supplemental copy. The original, I'm sorry,  
15 strike that. The supplemental copy contains everything  
16 that was in the original plus additional materials and  
17 studies, right?

18 A. That's right.

19 Q. Okay. So I'm not going to make you go through it, but  
20 there's nothing on the original reliance list that isn't  
21 in the supplemental copy that you gave us on I believe  
22 the 22nd?

23 A. That's correct.

24 Q. Okay. Now, I guess what was the story with the original

1           reliance list? I guess my question is why were the  
2           materials that were included on the second list not in  
3           the original list?

4       A.    Just that when I looked at the list, I saw that I had  
5           done actually and reviewed much more than what was on  
6           the list, so I thought this is not a complete and a  
7           comprehensive list. I thought if I were to really give  
8           you a comprehensive list of all the potential articles  
9           that I've reviewed that this would be the case.

10       Q.   Okay. So did you go back through and add those?

11       A.    Yes. So when I looked at the list, I said yes, there is  
12           much more to this, and I said I looked at all my  
13           articles that I have reviewed, and then I just added it  
14           up and sent them over.

15       Q.   Okay. And who provided you with the articles to review?

16       A.    I had most of the articles, because I have been doing  
17           clinical trials for decades now, and I have been --  
18           basically I have so many articles at my disposal. The  
19           only thing that I was provided was some of the Ethicon  
20           internal documents which obviously I had no -- I did not  
21           have it at my disposal.

22       Q.   Okay. So Ethicon didn't provide you with any of the  
23           studies, any of the literature that you reviewed?

24       A.    No.

1 MR. WALKER: And just to clarify, I want to be  
2 very clear, we have provided him with medical  
3 literature. What he's saying is he's already had it  
4 before we gave it to him if that makes sense.

5 BY MR. WOOL:

6 Q. Okay. So of that list, do you recall which of those  
7 articles are documents Ethicon provided you with?

8 A. The only thing that uniquely would stand out are the  
9 Ethicon documents, because the others -- it's a blurred  
10 vision, because it's obviously I have reviewed all these  
11 documents, because I have done papers on sling and  
12 vaginal mesh, I mean ongoingly even right now we are  
13 working on that, so I have all these documents and we  
14 stay up to speed especially since I'm a fellowship  
15 director.

16 Q. Okay. So I guess the internal documents that you  
17 reviewed, I guess the initial list has some Ethicon  
18 documents, is that an accurate statement?

19 A. I have to review it. Yes.

20 Q. Okay. And then the supplemental list has additional  
21 Ethicon documents?

22 A. Yes.

23 Q. So how did those get added to the list? Did you rely on  
24 those documents in formulating your report?



1       A.    No, my report was basically formulated on my own  
2            knowledge and what I have done and experience over time,  
3            but this is just to get some of the information as to  
4            what was done and to understand what else has been  
5            around and the information out there.  So it doesn't  
6            mean that it is part of it, it means that I have  
7            reviewed it, but that doesn't mean that if I have  
8            reviewed it, everything goes into my report.  It is part  
9            of something that I have reviewed.

10       Q.   So I guess my question is the additional Ethicon  
11            documents, you didn't rely on those in drafting your  
12            report?

13       A.   Well, I can't tell you exactly what I relied on and what  
14            I didn't rely on.  I drafted the report.  It's not that  
15            I looked at the document and I basically verbatim took  
16            it down.  So I reviewed the reports, and once I reviewed  
17            the information, then I formulated my own report, but,  
18            more importantly, my report is not based upon just this  
19            Ethicon documents, it's based upon my experience, and  
20            that's -- if you can see the report, it's literally, you  
21            know, that's what it spells out.

22       Q.   Right, right, so you spoke a little bit quickly there,  
23            so just so I'm clear, did you rely on the additional  
24            Ethicon documents in drafting your report?

1 A. Yes.

2 Q. You did?

3 A. Yes.

4 Q. The ones that are --

5 A. I relied on all these documents to make my report.

6 Q. Okay, the ones that are contained in the supplemental  
7 reliance list?

8 A. That's correct yes.

9 Q. Exhibit 3. Okay. And Ethicon provided you with those  
10 documents?

11 A. Yes.

12 Q. Did you ask for any specific documents?

13 A. No.

14 Q. So they were just the ones that Ethicon gave you?

15 A. Yes.

16 Q. Now, did Ethicon provide you with an outline for your  
17 report?

18 A. No.

19 Q. Okay. So nobody asked you to say anything in  
20 particular?

21 A. No.

22 Q. Did you talk to any Ethicon employees in the process of  
23 writing your report?

24 A. No.

1 Q. Nobody? Talk to any other experts?

2 A. No.

3 Q. Any fellow physicians?

4 A. No.

5 Q. And are you familiar with all the documents and  
6 materials on your reliance list?

7 A. Yes.

8 Q. Okay. So let's go to your history in the industry.  
9 Now, are you under contract as a consultant for any --  
10 for either Ethicon or let's just start with Ethicon,  
11 sorry, are you a consultant for Ethicon?

12 A. No.

13 Q. Okay. And have you been in the past?

14 A. Yes.

15 Q. Okay. Can you describe exactly what you did?

16 A. You know, that was long time back, probably it was 2004  
17 to 2008, but if I were to vaguely remember then, it was,  
18 I was a proctor for the TVT products and the Prolift and  
19 Prolift+M. I was also doing an investigator initiated  
20 study, so I don't think that is industry typically,  
21 though it was sponsored by Ethicon, but it was my own  
22 clinical trial on the TVT Secure. And I was one of the  
23 principal investigators for one of the mesh studies  
24 called Prosima, and I think I was also -- that's the

1 main thing.

2 Q. Okay. Anything else --

3 A. No.

4 Q. -- for consulting?

5 A. No.

6 Q. Okay. You said you were a proctor. So what exactly is  
7 that?

8 A. A proctor is where I have, you know, physicians, could  
9 be gynecologists or urologists who come to the operating  
10 room and observe me doing a surgical procedure or I go  
11 to their center and guide them in the operation or I  
12 teach them at a cadaver course. So it could be a center  
13 with the cadaver courses and the theory, and then there  
14 is practical hands-on training.

15 Q. Okay. And in this sort of teaching you're exclusively  
16 training other physicians?

17 A. That's correct.

18 Q. Okay. Approximately how much compensation did you  
19 receive?

20 A. You know, I can't -- this is way back. I don't think  
21 I -- I think probably -- I don't know if it happened  
22 after 2006, because the only thing that -- if I  
23 remember, and it's very vague, what I remember is that  
24 after that it was just my TVT-S in-office clinical trial

1           which I had the investigator initiated study which was  
2           sponsored by Ethicon. That is the only reimbursement  
3           that I got.

4       Q.    So to be clear, you didn't get any reimbursement for  
5           your work as a proctor?

6       A.    No, I did.

7       Q.    Oh, you did?

8       A.    But that is way back. This is total recall -- I mean I  
9           can't remember what happened 10 years ago.

10      Q.    So you don't have a recollection of how much you were  
11           paid for this?

12      A.    No.

13      Q.    Do you have an approximation, any guess?

14      A.    If I were to say it, maybe about \$15,000, \$20,000,  
15           somewhere in that ballpark.

16      Q.    Okay. And was it based on kind of a contract? Was it  
17           per -- was it per, I guess, teaching opportunity?

18      A.    Yeah, it was two types. One was I remember there was an  
19           annual contract, and they had to have the annual  
20           contracts, and the second was based upon each type when  
21           physicians came to learn from me in the operating room  
22           or if I went to teach a cadaver course.

23      Q.    Okay. And for your work as a proctor you used Ethicon  
24           products exclusively?

1 A. Yes.

2 Q. What products?

3 A. The entire line, the TVT family and the vaginal mesh  
4 family.

5 Q. And that included the Prolift?

6 A. Yes.

7 Q. And I know that you gave an answer on all of your  
8 consulting, but in addition to a proctor, you said you  
9 also served in what other capacities?

10 A. I don't think I said.

11 Q. So aside from your work as a proctor for Ethicon --

12 A. Yes.

13 Q. -- what other, I guess, consulting or I guess paid  
14 positions did you have?

15 A. I was an investigator in one of their mesh studies, one  
16 of the principal investigators in the TVT Secure  
17 clinical trial, so we initially started that clinical  
18 trials.

19 Q. And what sort of work does that entail as an  
20 investigator?

21 A. So as the investigator, we basically started getting --  
22 understanding the product and seeing how the product  
23 design was, then figuring it out, how it would be  
24 applicable in women's health from the standpoint of

1 urinary incontinence, and then we were initial group who  
2 started doing the clinical study in humans with the TVT  
3 Secure.

4 Q. Okay. Now, have you ever been a key opinion leader for  
5 Ethicon?

6 A. Yes.

7 Q. Okay. And when was that?

8 A. That was around the time when the TVT Secure monogram  
9 was coming out, and we tried to put the information  
10 together about what are the pearls for proper technique  
11 for this particular surgical procedure.

12 Q. So approximately what time frame are we talking about?

13 A. Maybe 2006, 2007.

14 Q. '06 to '07?

15 A. Somewhere in that.

16 Q. And that was the only period that you served as a key  
17 opinion leader?

18 A. Yeah.

19 Q. And were you compensated for that?

20 A. Probably I must have, because I don't think that they  
21 would do --

22 Q. Any approximation on how much you were compensated?

23 A. No, there was just one meeting probably, a couple of  
24 meetings.

1 Q. Just a couple meetings?

2 A. Yeah.

3 Q. And what specifically were you asked to do for Ethicon  
4 in those meetings?

5 A. So one -- so in that particular meeting, which was on  
6 the TVT Secure, they wanted to gain my experience as to  
7 why were physicians noticing problems and, you know,  
8 some issues, and how is a better way to manage this with  
9 the TVT Secure. And so we came up with the entire  
10 pearls as to what exactly the steps should be, so this  
11 was a group of physicians that came up so as to teach  
12 the new group of doctors trying to get into this so they  
13 have the right steps that they could follow. The same  
14 thing was being done at something called the summit  
15 meetings which I would attend. These were annual  
16 meetings by Ethicon, and they'll get physicians out so  
17 that we could brainstorm on certain topics. At these  
18 meetings then I would lead a small group session mainly  
19 on the TVT Secure or sometimes it could be on the  
20 Prolift+M.

21 Q. So what problems, I guess, were they hoping you could  
22 help them address?

23 A. There was a problem with the TVT-S versus the TVT-U,  
24 something about that, so how the physicians were not



1           understanding how to place it, so it was a different  
2           concept change. See, when you're going from a  
3           transobturator long sling to a mini sling, this was the  
4           first time that mini slings were being performed. So  
5           most physicians were used to doing the long slings. And  
6           what they were -- they were not realizing in there  
7           because of their experience how they were operating is  
8           the classic thing is to leave a gap between the sling  
9           and the urethra with the long slings. And it was  
10          becoming more and more evident to the initial  
11          investigators that that gap should not be left. So if  
12          the TVT Secure was put properly and snug against the  
13          urethra, the success improved. So this is what we  
14          wanted to highlight to the physicians and make them  
15          aware that it is not the problem of the device, it's not  
16          the problem of the sling. It's a problem of proper  
17          placement and approximation under the urethra, and that  
18          is critical for the success of TVT Secure. So what I  
19          was doing is we were enjoying very good results with  
20          this, and that's why they wanted my opinion to see what  
21          is it that you are doing. How come you are having this  
22          results, and how can we now translate this to everybody  
23          else who's starting to learn this. It's a different  
24          thought process. That's what they wanted to come up

1 with a different thought process that do not -- so just  
2 to give you a once quick example is the TVT cannot be  
3 too loose whereas a TVT Secure cannot be too tight.

4 Q. Now, did any of the problems deal with the Prolift?

5 A. No, my main thing was on the -- I mean it's not a  
6 problem of the device, either, there's a lot of TVT  
7 Secure device and the Prolift device.

8 Q. So what I'm asking is for your work as a key opinion  
9 leader, did any of that involve the Prolift or the  
10 Prolift+M.

11 A. No.

12 Q. None of it?

13 A. No.

14 Q. Now, you also worked as a key opinion leader for summit  
15 meetings, you said?

16 A. Yes.

17 Q. Okay. And what sort of topics would you discuss with  
18 other physicians at those meetings?

19 A. The entire -- both families, the TVT group of families  
20 and, also, the vaginal mesh family.

21 Q. Okay. And any problems that people were having with the  
22 Prolift or the Prolift+M --

23 A. No.

24 Q. -- at those meetings?

1 A. No. In fact, they were very happy with the devices.

2 Q. Okay. So at no point in any of your work as a key  
3 opinion leader at these summits did you discuss the  
4 Prolift or the Prolift+M?

5 A. No, we discussed it. I didn't say we did not discuss.  
6 I said we discussed it but there were no problems.

7 Q. Okay. There were no problems that other physicians were  
8 having?

9 A. That's correct.

10 Q. Okay.

11 A. In fact, if you don't mind me interrupting, when they  
12 came up with the new device which was a trocarless  
13 device when the Prosima came out, there was a major  
14 uproar in the group of physicians who were out there  
15 because they were so happy with the Prolift and the  
16 Prolift+M and the trocar based technique, they did not  
17 want to go to an trocarless system.

18 Q. Have you ever been involved in the preparation of an  
19 IFU?

20 A. No.

21 Q. Drafting of an IFU?

22 A. No.

23 Q. Have you ever been hired as a consultant to draft an  
24 IFU?

1 A. No.

2 Q. Has any medical device company ever retained you to help  
3 them draft Instructions For Use?

4 A. No.

5 Q. Have you ever been approached by a medical device  
6 company for your opinion on warnings?

7 A. Prior to launch?

8 Q. Yes, prior to launch.

9 MR. WALKER: I'm going to object to form.

10 THE WITNESS: No.

11 BY MR. WOOL:

12 Q. No? Have you ever been a consultant for the FDA?

13 A. No.

14 Q. Ever been employed by the FDA?

15 A. No.

16 Q. Received any compensation from the FDA?

17 A. No.

18 Q. Have you ever served on an FDA advisory board?

19 A. No.

20 Q. Have you ever corresponded with the FDA about your  
21 opinions related to pelvic mesh?

22 A. Yes.

23 Q. Tell me about that.

24 A. It was a report that we wrote out, it was authored by

1 Myles Murphy, and it was about after the FDA advisory  
2 came out in 2011 we came together and put up a report,  
3 so I was one of the physicians involved in that report.

4 Q. Okay. And very briefly, that report disagreed with the  
5 FDA's opinion?

6 MR. WALKER: Object to form.

7 THE WITNESS: Not entirely, but it did  
8 disagree on several points.

9 BY MR. WOOL:

10 Q. Okay. Let's see now, have you ever corresponded with  
11 any society about your opinions related to pelvic mesh?

12 A. Can you repeat the question, please?

13 Q. Have you ever corresponded with any medical society  
14 regarding your opinions related to pelvic mesh?

15 A. No.

16 Q. Are you a member of AUGS?

17 A. Yes, that's American Urogynecology Society.

18 Q. Right. And you've never corresponded with them related  
19 to your opinions on mesh?

20 A. That is correct.

21 Q. Okay. You're a member of -- I'm going to call it AUGS.  
22 Do you have any sort of leadership position within that  
23 society?

24 A. No.

1 Q. Have you ever served in any sort of leadership role  
2 within that society?

3 A. No.

4 Q. Okay. Sorry, I'm just looking for your CV.

5 A. It's in the binder I gave you.

6 MR. WALKER: It's in the bottom of what you're  
7 holding.

8 BY MR. WOOL:

9 Q. Okay. So I'm going to hand you what will be marked as  
10 Exhibit 4.

11 KHANDWALA DEPOSITION EXHIBIT NUMBER 4,  
12 SALIL KHANDWALA, MD FPMRS FACOG -  
13 CURRICULUM VITAE  
14 WAS MARKED BY THE REPORTER  
15 FOR IDENTIFICATION

16 BY MR. WOOL:

17 Q. And I assume that this is the same CV that you provided  
18 me with today?

19 A. Yes.

20 Q. Is that correct? Okay. And everything is up to date?

21 A. Very likely.

22 Q. Very likely. Do you see anything that --

23 A. Can I see my --

24 Q. (Hanging.)

1       A.     I think you should go by this, couple of articles that  
2             I've put in this CV that are relevant, just a couple of  
3             articles --

4                     MR. WALKER: Counsel, I'll note that there are  
5             redactions on what you offered as Exhibit 4, I believe,  
6             at the very top so --

7                     MR. WOOL: So this will be redacted as well.

8                     MR. WALKER: Yeah, I'd just like to make it  
9             clear we'll need to redact the CV accordingly.

10                    MR. WOOL: And would you pass me that blue  
11             folder again.

12     BY MR. WOOL:

13     Q.     Okay, because I haven't had a chance to review this,  
14             what updates are contained in this version that --

15     A.     I think there's a paper -- I'm not -- you know, it's  
16             positioned the first in one of my papers and  
17             publications, so I don't know if it was in the other CV,  
18             the first paper, but maybe it's there, but maybe it's  
19             the organization was not there.

20     Q.     So does it reflect any new research that you're involved  
21             with that wasn't involved in the -- that wasn't included  
22             in the first copy?

23     A.     No, published research, research but it's not published  
24             yet.

1 Q. Okay. Let's see now, you went to medical school at the  
2 University of Bombay?

3 A. That's correct.

4 Q. And then you did your residency where? I'm sorry, where  
5 did you complete your residency?

6 A. Well, I did it at -- mainly initially I did it in  
7 Bombay, and then I did an OB-GYN  
8 residency at Greater Baltimore Medical Center in  
9 Baltimore.

10 Q. And is that where you did your fellowship as well?

11 A. I did two fellowships. I did a fellowship in France in  
12 laparoscopic surgery, fellowship there in Clermont  
13 Ferrand, C-l-e-r-m-o-n-t F-e-r-r-a-n-d, and second  
14 fellowship I did at Greater Baltimore Medical Center and  
15 University of Maryland in female pelvic medicine  
16 reconstructive surgery, FPMRS.

17 Q. Did you use mesh in your fellowship?

18 A. Yes.

19 Q. Okay. Now, who instructed you on the use of mesh for  
20 pelvic organ prolapse, for the treatment of pelvic organ  
21 prolapse?

22 A. I started using mesh even when I was a resident in my  
23 second year with the gynecologists who were practicing  
24 there, so many of them were using it for abdominal



1           sacrocolpopexy. And we then started using mesh as the  
2           sling for the retro pubic TVT procedure.

3       Q.    Okay. And who instructed you how to perform these  
4           procedures?

5       A.    Dr. Alfred Bent, who was my fellowship director.

6       Q.    And what mesh did you use at that time, do you recall?

7       A.    I believe it was the Gynemesh, but I don't know exactly  
8           what was it, because I was a resident at the time. That  
9           was the mesh for abdominal sacrocolpopexy. Then for the  
10          TVT it was the TVT mesh.

11      Q.    Okay. And did you learn nonmesh surgical techniques at  
12          that time as well?

13      A.    Most of the techniques at that time were non-mesh, so  
14          yes, I was very familiar with non-mesh.

15      Q.    Okay. And going forward I'm going to refer to those as  
16          traditional surgical techniques or techniques with  
17          native tissue repairs. Does that seem like a fair  
18          characterization?

19      A.    I don't think so, because traditional, I don't know what  
20          that means. You can say native tissue repair, I'm fine  
21          with that.

22      Q.    Okay, so native tissue repairs, we'll use that term.  
23          And who instructed you or who taught you the native  
24          tissue repair techniques?

1 A. Many of my gynecology faculty and, also, Dr. Bent, who  
2 was the fellowship director.

3 Q. So at that time, I guess, did Dr. Bent, B-e-n-t?

4 A. Yes.

5 Q. Did he have a preference for mesh or native tissue  
6 repairs?

7 A. It depended upon the case. If the case was an extremely  
8 large vaginal prolapse, then he would do an abdominal  
9 sacrocolpopexy procedure, and that's what we did. If it  
10 was a vaginal procedure he could -- he thought he could  
11 get away with a vaginal case, then he would do a native  
12 tissue repair. It all depended upon how the extent of  
13 the prolapse was, the recurrence of the prolapse, had  
14 the patient had a prior prolapse surgery, so a lot of  
15 factors went into making in that decision.

16 Q. So if you had to guess during your fellowship as to the  
17 percentage of each surgery, either native tissue repair  
18 or mesh surgery, which one did you do more frequently?

19 A. That depends upon the indication. So we're talking  
20 about two things. Number one, if you're talking about  
21 incontinence, then I would say that during my fellowship  
22 that spanned 2000-2002, in that period of time it was  
23 predominantly we were doing laparoscopic Burch  
24 colposuspensions. Then that's when the TVT was sort of

1 coming into being. And then from the point of view of  
2 vaginal prolapse surgery, it completely depended upon  
3 the case. So I can't tell you exactly what, I mean  
4 again so far back, I can't tell you what we were doing  
5 predominantly for. So the indication changed, so if you  
6 asked me from the standpoint of indication if a woman  
7 had a recurrent vaginal vault prolapse, what would be  
8 the best case, and abdominal sacrocolpopexy with mesh  
9 would be the preferred operation for that case. So I  
10 can't generalize and say that, you know, which one we  
11 did more or less of, it's based upon, you know, the  
12 indication, the reason why we were doing it.

13 Q. So you can't give me an approximation for pelvic organ  
14 prolapse?

15 A. Correct.

16 Q. So describe your training on how to implant transvaginal  
17 mesh.

18 A. So I was doing a lot of vaginal reconstructive surgery,  
19 and my expertise was in vaginal reconstructive  
20 procedures right my residency in India to my training in  
21 France to my training and doing my residency in the U.S.  
22 So having done that much, I was very familiar with the  
23 vaginal anatomy. As I was doing the vaginal native  
24 tissue repairs, I was very frustrated by the outcomes I

1           was getting. We were having a lot of failures, and I  
2           was working very hard to do the best I could, and I knew  
3           something is not right, there is something that has to  
4           be done to improve the success for these failures.

5                       Just about that time there was talk about  
6           vaginal augmentation surgery. All we had at that time  
7           was abdominal sacrocolpopexy, which used a mesh, so you  
8           would take a sheet of mesh, cut it to size, and do it.  
9           So I've been using mesh since 1992 or '93, but this,  
10          when we started doing vaginally, and then I realized  
11          that augmentation surgery is something which is going to  
12          be beneficial to my patients because they were just  
13          failing, that's when I realized that, I got into vaginal  
14          augmentation surgery with mesh.

15       Q.    So, Doctor, I don't think that we really got a clear  
16           answer on that question. Okay. So specifically  
17           training for the implantation of vaginal mesh, not the  
18           entire anatomy, when did that occur predominantly?

19       A.    It was around the time when the IVS tunneler was  
20           launched in 2002, I believe, somewhere in thereabouts,  
21           2002, 2003.

22       Q.    Okay.

23       A.    But it is -- the reason why I'm saying that is because  
24           it is not -- it's mesh -- the technique is not -- the

1           most important thing is the dissection and, I'm sorry,  
2           the anatomy, and then you're putting the mesh in, I was  
3           doing it from above, anyway, so now we got the ability  
4           to do it from below, and that's when, the device when it  
5           came out, it was around 2002, 2003 when I started doing  
6           the, you know, transgluteal passages for prolapse.

7       Q.   And how were you trained to perform that procedure?

8       A.   I had gone to a cadaver course, and I did cadaver passes  
9           and I -- someone had come to proctor me at my site, you  
10          know, when I was doing the first case, first couple of  
11          cases, and then I started doing them on my own, because  
12          the most -- 95 percent of the thing doesn't change, the  
13          dissection, that's the key. Whether you use mesh or you  
14          do not use mesh, the dissection is very similar, it  
15          doesn't change that. All that changes is what you're  
16          going to do there. Are you going to put in a piece  
17          there or are you going to put the tissues together?

18                   The only other difference was passage of these  
19          Trocars, which is the only additional thing I had to  
20          learn, which is truly about 5 percent of the entire  
21          surgical procedure.

22       Q.   Okay. So this was an academic course in roughly the  
23           2002 to 2003 time period which is where you learned?

24       A.   Correct.

1 Q. Okay. And then as you started to perform the  
2 procedures, was anybody ever guiding you?

3 A. So now this we're talking about the vaginal mesh for  
4 prolapse?

5 Q. Yes.

6 A. No, then I was just monitoring my own cases.

7 Q. Okay. And this course that you took in '02 to '03,  
8 approximately -- strike that. Let's see, so you  
9 currently -- do you currently hold any academic  
10 positions?

11 A. Yes.

12 Q. Where?

13 A. At Wayne State University, I am associate professor at  
14 Wayne State University in the Department of Obstetrics  
15 and Gynecology.

16 Q. And do you receive a salary from Wayne State?

17 A. Yes.

18 Q. Okay. Approximately how much?

19 A. It is a very nominal salary because I'm an associate  
20 professor, it is to teach the residents. I think it is  
21 about \$10,000 per year.

22 Q. And what are your responsibilities in teaching the  
23 residents?

24 A. Make them aware of the science and the medicine of

1 female pelvic medicine and reconstructive surgery or  
2 FPMRS. So they rotate with me. There are about 10  
3 residents there. Each resident rotates with me for a  
4 month and they follow me, they come to the office, they  
5 see patients with me and with my fellow, and then they  
6 go to the hospital to do surgical cases with me.

7 Q. Okay. And I guess when you're training them, is it  
8 exclusive to, I guess, watching you perform surgery or  
9 are you doing cadaver training as well?

10 A. For them it is more to make them aware of the entire  
11 field. So what we're focusing now is the surgical  
12 procedures is just a technique, it's a very small piece  
13 of this entire field. This field is much more than just  
14 doing a surgical procedure. The biggest thing is when  
15 do you do this or what reason, who is the right patient?  
16 And that's what they'll learn with me in the office. So  
17 they come with me in the office, they understand the  
18 pathophysiology, they understand the science behind the  
19 pathophysiology, and once they understand all that, then  
20 they see the surgical technique. So they do the whole  
21 thing.

22 Q. Now, do you ever teach them anything related to the  
23 removal of mesh?

24 A. Well, I hardly have any of those cases, but even if I

1           had, they would just see with me as I'm placing it and  
2           if I am removing it. I've never had to remove an entire  
3           mesh.

4       Q.    You never had to explant an entire mesh?

5       A.    Never.

6       Q.    Never? Okay. But you do have to remove portions of  
7           mesh, correct?

8       A.    I've had to do it a few cases.

9       Q.    All right, a few cases. Are they your own cases?

10      A.    Yes.

11      Q.    Okay. Have you ever had to remove mesh from another --  
12           from a patient that started with another physician?

13      A.    Very few.

14      Q.    Very few? Approximately how many?

15      A.    Maybe about four or five.

16      Q.    Four or five?

17                   MR. WALKER: Can I just ask for clarification?

18           Are you asking about mesh in general from any  
19           manufacturer or --

20                   MR. WOOL: From any manufacturer.

21                   THE WITNESS: Yeah, I'd like to clarify that,  
22           too. I'm talking about mesh removal not only from any  
23           manufacturer and any manufacturer but also for any  
24           procedure, which is not just prolapse but also



1           incontinence.

2       BY MR. WOOL:

3       Q.    Okay.  So approximately how much removal from prolapse?

4                   MR. WALKER:  Again, are you talking about any  
5       manufacturer?

6                   MR. WOOL:  Any manufacturer, yes.

7                   THE WITNESS:  Maybe two.  It's usually the  
8       slings that I have had to modify.

9       BY MR. WOOL:

10      Q.    Okay.  And so what types of patients do you typically  
11      see?

12      A.    General in my practice?

13      Q.    Yes.

14      A.    It's -- I see predominantly patients for female pelvic  
15      medicine reconstructive surgery, which is patients with  
16      urinary symptoms, could be urgency, frequency, leakage  
17      of urine, whether urgency leakage or cough-associated  
18      leakage, vaginal pain, vaginal prolapse, accidental  
19      bowel leakage, and female sexual dysfunction.

20      Q.    Now, when somebody presents to you with pelvic organ  
21      prolapse, what factors are you looking at to see whether  
22      or not they might be an appropriate candidate for a mesh  
23      surgery?

24      A.    First of all, the patient has to be complaining of the

1           presence of a bulge, so when she comes to me and she  
2           says that this is a bulge, it's bothersome and it's  
3           coming down and this bothers me, so the bulge itself has  
4           to be a bothersome factor to the patient. The way we do  
5           in our practice is we give our patients what is known as  
6           validated questionnaires. So they fill out these  
7           validated questionnaires. One of the validated  
8           questionnaires I give them is something called PFDI-20,  
9           Pelvic Floor Distress Inventory short form 20, and in  
10          that form they basically put out what are the symptoms,  
11          and it goes over aspects of bowel, aspects about the  
12          bladder, and aspects about the vaginal prolapse. So  
13          when they do that form, then they also have a couple of  
14          other forms they fill out called PFIQ, which is a  
15          quality of life questionnaire for Pelvic Floor and  
16          Incontinence Questionnaire and some urinary incontinence  
17          questionnaire. Once they fill out, we get a very good  
18          idea as to what is her main complaint, what is she  
19          mainly bothered by? Is it pain? Is it discomfort? Is  
20          it leakage? Is it urinary inability to empty? Or is it  
21          a persistence of vaginal bulge? Once we review those  
22          questionnaires, then we go in and talk to the patient  
23          and go over those questionnaires with the patient and  
24          then try to clarify as to what is going on.

1                   Following that we do an examination and we do  
2                   a very thorough examination lying down, sitting and  
3                   standing, and we may take a video of the prolapse if it  
4                   is there, and we review the video with the patient and  
5                   say this is what we found, this is -- are you  
6                   complaining about this? What is your main complaint?  
7                   So the key thing here is to correlate and make the  
8                   patient understand that if she has a bulge, is that what  
9                   she's bothered by, the presence of the bulge?

10                  Then there are other factors that come up in  
11                  the validated questionnaire and the other part of the  
12                  history form such as has she had any prior surgeries  
13                  done for this problem? Is she a smoker? What is her  
14                  weight? Does she have any risks such as diabetes that  
15                  could affect tissue healing? How long has this prolapse  
16                  been? What is the texture of this prolapse? Is it thin  
17                  walled? Is she menopausal? Is she on estrogen? Does  
18                  she have associated complaints such as bladder  
19                  complaints, bowel complaints? All that goes into play  
20                  to decide what do I need to do? More importantly, I  
21                  also look at whether she has a uterus.

22                  If she has a uterovaginal prolapse, which is  
23                  significant, what we do at our center is we do not take  
24                  the uterus out. We do uterine preservation operation.

1           So that is very important in my decision whether I am  
2           going to use mesh or not, uterine preservation, because  
3           that is what we strongly believe in, and that's a paper  
4           that we published, and it's part of my report and, also,  
5           a paper that we are actually working on about to be  
6           published with the Exair, E-x-a-i-r, mesh from  
7           Coloplast.

8       Q.    So depending on all these factors, somebody may or may  
9           not be a good candidate for mesh?

10     A.    That is correct.

11     Q.    And so what are some of the other treatment options that  
12           you offer?

13     A.    The most important option I offer them is to do nothing.  
14           So if they're coming in, they're not bothered by this, I  
15           tell them don't do anything about this and just let's  
16           see how it goes. Many a times patients just need  
17           reassurance. They think that sometimes they do come  
18           into my office and the gynecologist sees a bulge and  
19           says, hey, go to the specialist and get it taken care  
20           of. They come here, we go over these validated forms,  
21           we realize that she's really not bothered by this bulge  
22           and she's here because her doctor sent her. Tell them  
23           there's nothing to do. That's very important, to do  
24           nothing.

1                   Number two is to do something called pelvic  
2                   floor therapy, which is improving the tone of the pelvic  
3                   floor muscles, and in mild degrees of prolapse it works  
4                   very well to improve that, you know, so that they do not  
5                   have to go for an operation in the future or it doesn't  
6                   worsen.

7                   Third, we talk about pessary, which is a  
8                   device -- p-e-s-s-a-r-y -- which is inserted into the  
9                   vagina to hold the bulge inside. That's the third thing  
10                  we talk and discuss with patients.

11                  Fourth, we talk about if we then went -- go  
12                  into surgery, after having discussed expected  
13                  management, pelvic floor therapy, pessary management,  
14                  then we will discuss surgery, we then explain to the  
15                  patient about what is the prolapse that she's having and  
16                  what could be done about that and the different options,  
17                  whether she goes in for native tissue repair or whether  
18                  she goes in for vaginal mesh augmentation surgery.

19       Q.       Okay. So you offer native tissue repair to your  
20                  patients?

21       A.       Yes.

22       Q.       So what are the factors that would lead you to direct  
23                  somebody, or direct a patient towards native tissue  
24                  repair?

1 MR. WALKER: Are you talking about for  
2 prolapse?

3 MR. WOOL: For prolapse, yes, this entire  
4 question is about prolapse.

5 THE WITNESS: Well, it depends upon the extent  
6 of the bulge, and many a times if the patient has a  
7 bulge which is not that significant for recurrence,  
8 let's say if it is a Stage 2 vaginal bulge and it's not  
9 really coming out but she is bothered by this and she  
10 says I just don't like this, I understand it's not  
11 coming out, you know, I know that it's not outside my  
12 body, but it is right there, so I just don't want it to  
13 be there, so in that patient, you know, I would tell her  
14 that listen, I'm going -- in the intervention I talk to  
15 them about vaginal mesh augmentation, also, when I go in  
16 for surgery, I say I'm going to go into the OR, and in  
17 the OR I will decide what happens. Most likely you will  
18 not need mesh, you know, if I don't have to put it, I  
19 won't put it, whatever little or more, whatever that is  
20 depends upon the surgical outcome. What I tell her is  
21 that what my goal as your physician is to give you the  
22 best chance at success at this first attempt. That's my  
23 job. So when I go in and I open up the vagina and I  
24 find that the tissue is completely attenuated, there's

1 nothing there, then I would augment it. You never know,  
2 until you actually get in, you never know. So I give  
3 patients what options, and I make them understand why I  
4 would decide one versus the other.

5 Q. Right, so you said if they were presenting with Stage 2  
6 prolapse. Any other factors that you would consider in  
7 directing somebody towards native tissue repair?

8 A. That's the main -- well, it depends upon what I find,  
9 but that's the main thing. If a larger prolapse, you  
10 know -- see, the typical operation that I perform, and  
11 if you look at my literature, also, most of the  
12 operations I perform are for stage 3 to stage 4 vaginal  
13 prolapses where there is a significant bulge that's  
14 coming out, especially uterovaginal prolapse. You know,  
15 then I would not do native tissue repair unless it -- I  
16 mean native tissue repair for a large uterovaginal  
17 prolapse, that requires hysteropexy, that means where  
18 the uterus is kept inside, hysteropexy, where the uterus  
19 is kept in inside, fails. There are papers published by  
20 Dietz and Lynd, you know, that if it's stage 3 or stage  
21 4, there's a 70 to 80 percent chance that vaginal native  
22 tissue hysteropexy will fail. What we believe strongly  
23 is to keep the uterus, so that is our number one thing.  
24 So if the patient has large uterovaginal prolapse, I

1 will almost always recommend mesh surgery.

2 BY MR. WOOL:

3 Q. Okay. So in addition to Stage 2 or better, any patient-  
4 specific factors, obesity, if they're a smoker, anything  
5 else that weighs in on your decision?

6 A. Yeah, just as I mentioned earlier, so those -- I mean  
7 all these -- there are several, several factors I look  
8 at right from what is their age, is she postmenopausal,  
9 is she on estrogen, how is her vaginal anatomy, what is  
10 the -- is it thinned out, is it atrophic, does she have  
11 decubitus ulcers of the prolapse, then does she have  
12 recurrence, is it a first time or is it a recurrence,  
13 weight absolutely because BMI would have an influence on  
14 the success. Ultimately what I believe in doing is that  
15 I want to go in and do this once and for all. I do not  
16 want this patient to come back. I don't want her -- to  
17 take her back to the OR nor should she be going back to  
18 the OR. So what in my hands and in my experience is the  
19 best treatment for this patient, is the ultimate  
20 judgment. So there are many, many factors. Sitting  
21 across the table from you I can't just say, hey, this is  
22 just one thing or two things. There are so many factors  
23 that go into play, and it's so much individually  
24 tailored. Now, you may say, okay, your pant size is 30



1 to 32, but until you actually try the pant, you don't  
2 know if it's going to fit you.

3 Q. Right. And so you said in your last answer that one of  
4 the main things you're looking for is trying to come up  
5 with a treatment solution that will not send them back  
6 to the operating room, is that --

7 A. That's my main goal, yes.

8 Q. Okay. So what percentage of your practice involves  
9 pelvic organ prolapse?

10 A. Probably about 50 to 55 percent.

11 Q. And what mesh products do you use for treatment of  
12 prolapse?

13 A. I use the Elevate, E-l-e-v-a-t-e, which is by Astora,  
14 and I use the -- I used to use Exair, E-x-a-i-r. It's  
15 not on the market anymore.

16 Q. And you started with the IVS tunneler?

17 A. Yes.

18 Q. Okay. And then you switched to the Prolift?

19 A. Yes.

20 Q. Now, why did you make the switch?

21 A. Because the IVS tunneler, it is a very good concept, you  
22 know, where you are now figuring a way out to attach the  
23 Gynemesh is what was being used, the Gynemesh to the  
24 sacrospinous ligaments, but the IVS tunneler is a sharp

1 metallic rod, and you have to turn it around and bring  
2 it in your face to feed the mesh loop in, you know, so  
3 that's a very -- it's very hard to have a metal rod  
4 which is nonflexible to turn and bring towards you.

5 What Prolift did is it was similar concept but  
6 it basically penetrated the ligament and the moment it  
7 penetrated the ligament, the needle just stayed there,  
8 and then you threaded the mesh retrieval loop from there  
9 to retrieve the arms of the mesh. That was phenomenal  
10 because that made a big difference because that  
11 decreased the amount of tissue trauma that was being  
12 brought about by the tunneler.

13 Q. So it was the process that led to your change in your  
14 practice?

15 A. Yes.

16 Q. Okay. Not the -- you didn't assess any differences in  
17 the mesh itself?

18 A. I believe the mesh was the same. I think the mesh that  
19 was used with the IVS tunneler was the Gynemesh PS.

20 Q. Okay. And then you moved from the Prolift to the  
21 Prolift+M?

22 A. That's correct.

23 Q. Now, why did you make that change?

24 A. That's a very good point, you know, I can still vividly

1           remember why I would do that, you know, because I was  
2           enjoying, as evident in my study of 315 patients, I was  
3           enjoying great results with the Prolift, and I thought  
4           should I change something that I'm doing good with? You  
5           know, and then I looked at just the basic concepts, and  
6           I said, well, what if -- you know, the typical concept  
7           in medicine is do -- use -- you know, the risk balance,  
8           so what if I can get the lowest dose of a drug possible  
9           to get that effect, because the lower the dose, maybe  
10          then she will not have possible side effects. So maybe  
11          if you have a mesh that partly melts away, then maybe it  
12          could have a better effect. Maybe that, you know, then  
13          the factor was that it has this lateral stability and  
14          longitudinal flexibility and stretchability, so that may  
15          allow the bladder to distend more, the rectum to distend  
16          more, so theoretically, it made sense, from the  
17          engineering standpoint.

18       Q.    So it was based on a theoretical proposition?

19       A.    I had nothing against Prolift, I loved Prolift. It did  
20           a fantastic thing. The only reason to switch was this  
21           possible theory that could it -- could you -- and it's  
22           good to advance, you know, medical changes -- changes  
23           are sometimes good, so you never know what it is going  
24           to bring, and if it looked at, yes, this is something

1           that could be better, maybe from whatever reason, maybe  
2           now we're getting success with -- Prolift was very good,  
3           but what if we could get even better, for whatever  
4           reason, you know, from something which is theoretical.

5       Q.   And this decision was based on the fact that the M  
6           has --

7       A.   Monocryl.

8       Q.   Monocryl --

9                       MR. WALKER: Let him finish his question.

10       BY MR. WOOL:

11       Q.   So that was the overriding factor that led to your  
12           decision to switch?

13       A.   It was the -- it was Monocryl, but, more importantly,  
14           what was described is that it maintained its lateral  
15           strength, so that's where it's anchored, the lateral  
16           strength, but it allows more of longitudinal  
17           flexibility. So what that meant is theoretically how  
18           could this be important? One, as the bladder is  
19           distending, as the bladder is filling, if you have a  
20           mesh that could stretch longitudinally, it may allow it  
21           to fill more. The rectum, same thing, intercourse,  
22           because typical, you know, Master's and Johnson's theory  
23           about intercourse and foreplay is that there is  
24           ballooning of the vagina. So if you have a mesh that

1           has longitudinal flexibility, then theoretically, you  
2           know, it makes sense that during intercourse it would be  
3           more flexible and may therefore yield more possibly.

4       Q.   And so we're still talking about your decision to switch  
5           from the Prolift to the Prolift+M. So what data was  
6           available to you at the time that the M had greater  
7           lateral strength?

8       A.   It was just the experiment, the information from the  
9           engineers.

10      Q.   From the engineers?

11      A.   Yeah.

12      Q.   From Ethicon's engineers?

13      A.   From Ethicon's engineers.

14      Q.   Okay. And the Prolift and the Prolift+M are no longer  
15           on the market, correct?

16      A.   That is correct.

17      Q.   Okay. And when they were taken off --

18      A.   Can I take that back. The Prolift and Prolift+M as a  
19           device is not on the market, but the mesh is still  
20           around.

21      Q.   Right. Okay, and then from there you switched to what  
22           device?

23      A.   I switched temporarily to Elevate, and then I switched  
24           to Exair. The reason why I went with Exair was --

1 E-x-a-i-r was made by Coloplast, it was a similar  
2 technique as the Prolift, almost identical, and, you  
3 know, since this was not available and literally I mean  
4 I still remember that when we initially made the pass, I  
5 made my first two passes and then just I handed it over  
6 to my fellow, and my fellow started doing it because he  
7 was doing the Prolift+M already so it was nothing  
8 different, so I didn't even have to do more than two  
9 passes because it was almost identical to the +M  
10 technique.

11 BY MR. WOOL:

12 Q. So approximately how many procedures did you use for the  
13 Prolift?

14 A. About -- Prolift I would say about between 350 to 400,  
15 in the 400 vicinity, 315 is what we gathered the data  
16 on.

17 Q. Okay. And the +M?

18 A. +M I would say something similar. We did a long-term  
19 results on 250 cases of consecutive use, but then there  
20 are a lot of other cases that were not part of that  
21 consecutive use paper that was published.

22 Q. Okay. And do you think that those numbers are typical  
23 for a urogynecologist implanting mesh for pelvic organ  
24 prolapse?

1 MR. WALKER: Object to form.

2 THE WITNESS: I don't know, I don't know what  
3 others do. I'm sorry. I can't comment on others.

4 BY MR. WOOL:

5 Q. I guess do you think that that is a high number for  
6 somebody in the field?

7 MR. WALKER: Object to form.

8 THE WITNESS: It is an appropriate number for  
9 someone who sees a proper pathology. So, you know, if  
10 someone is seeing -- most urogynecologists like me are  
11 referral centers, so we get patients who have these  
12 large prolapses that come into our lap, so I don't get  
13 Stage 2 prolapses, I'm more -- most of my prolapses are  
14 stage 3 or stage 4. I mean the other day I did a  
15 patient that was 18 centimeters outside the vagina, so,  
16 you know, these are the prolapses that usually come to a  
17 referral center. So when I'm looking at it from a  
18 referral center, of course my statistics -- I'm going to  
19 be biased because I'm going to be banking more on  
20 vaginal mesh augmentation because I see more, but I  
21 don't know, you know, what others are doing, you know,  
22 what other physicians do, but typically from what I know  
23 is that most referral centers will really get all the  
24 bad cases or the large cases.

1 BY MR. WOOL:

2 Q. And that -- and you are a referral center, your practice  
3 is a referral center, correct?

4 A. Yes.

5 Q. Okay. And --

6 MR. WALKER: David, we've been going a little  
7 over an hour --

8 MR. WOOL: Yeah, we can go off the record.

9 (A recess was taken from 10:10 a.m. to  
10 10:21 a.m.)

11 MR. WALKER: Before you start, I want to put  
12 on the record that we received a flash drive from FedEx  
13 during our break, and that flash drive contains Dr.  
14 Khandwala's reliance materials, and I have provided that  
15 to Plaintiff's Counsel.

16 MR. WOOL: Okay.

17 BY MR. WOOL:

18 Q. Okay, Doctor, so I just asked you about the number of  
19 Prolift and Prolift+M procedures that you had performed.  
20 Prior to switching to the Prolift, approximately how  
21 many IVS procedures?

22 A. You know, I can't recall that, that was probably 2002,  
23 2003, I have no idea.

24 Q. You think in the hundreds?



1       A.     No, I'd probably say about maybe 20, 25, in that  
2             ballpark, because from what I remember, as soon as the  
3             IVS tunneler came out, Prolift was in the works, and it  
4             came out soon thereafter.

5       Q.     Okay. And prior to the tunneler, approximately how many  
6             surgeries had you performed using mesh for the treatment  
7             of pelvic organ prolapse?

8                     MR. WALKER: Are you talking about  
9             transvaginal mesh or --

10                    MR. WOOL: Yes, any manufacturer.

11                   THE WITNESS: Well, there was -- we didn't  
12             have any transvaginal meshes at that time.

13     BY MR. WOOL:

14     Q.     Okay. Any other meshes, Gynemesh?

15     A.     I don't think I did any patch meshes, so, no, I was just  
16             doing fascia repair, native tissue repair.

17                   MR. WALKER: I was just making a distinction  
18             between the vaginal and abdominal approach.

19                   MR. WOOL: Right.

20                   THE WITNESS: Abdominal, of course, we  
21             would --

22     BY MR. WOOL:

23     Q.     Okay. And I'm sorry if I asked you this question  
24             before, or actually, no, I'm sorry, strike that. Okay.

1           So approximately how many patients have you treated with  
2           mesh erosion?

3                       MR. WALKER: Object to form.

4                       THE WITNESS: What do you define by erosion?

5       BY MR. WOOL:

6       Q.    I guess how would you define erosion medically and  
7           then --

8       A.    Well, it's a very -- the terminology has been very  
9           loosely used in literature to date. Mesh erosion has  
10          been sometimes labeled as in the vagina, in the  
11          neighboring viscus. The way now and the new  
12          nomenclature states that words like extrusion should not  
13          be used. Erosion is where the mesh breaks into a  
14          neighboring viscus such as the bladder or the bowel. If  
15          that's the question you're asking me, how many mesh  
16          erosions have you had, I have not had a single.

17       Q.    You haven't treated a single patient for an erosion?

18       A.    I have not treated a single --

19                       MR. WALKER: Object to form.

20                       THE WITNESS: Personally I have not treated a  
21          patient with vaginal mesh erosion the way I defined it.

22       BY MR. WOOL:

23       Q.    Okay. And so that would include both your patients,  
24          anybody that would be referred to you, anything like

1           that?

2       A.     That's correct.   So that's different from exposures.

3       Q.     Okay.   Have you ever treated a patient with recurrent  
4           urinary tract infections?

5       A.     I have several patients with urinary tract infections,  
6           that's part, being a part -- I would say 7 to 8 percent  
7           of my practice is recurrent urinary tract infections.

8       Q.     Okay.   And any of those that you attribute to mesh?

9       A.     No.

10                       MR. WALKER:   Object.

11       BY MR. WOOL:

12       Q.     Okay.   Have you ever treated a patient with chronic pain  
13           that you attribute to mesh?

14                       MR. WALKER:   Object to form.

15                       THE WITNESS:   No.   Can I elaborate a little  
16           bit on that?

17       BY MR. WOOL:

18       Q.     Yes.

19       A.     So when I say no, what I'm saying is I have treated  
20           patients with chronic pelvic pain.   However, I do not  
21           think that it has anything to do with mesh.

22       Q.     Were those patients treated with mesh?

23                       MR. WALKER:   Object to form.

24                       THE WITNESS:   Most of my patients have pelvic

1 pain because of vulvodynia, and that has got nothing to  
2 do with mesh, so even if -- so they do not have mesh.

3 BY MR. WOOL:

4 Q. So to be clear, you haven't seen a patient before that  
5 you treated for chronic pain, whether or not you  
6 attribute it to mesh, that also had been treated with  
7 mesh?

8 A. Could you repeat that again.

9 MR. WALKER: I think that misstates his  
10 testimony.

11 BY MR. WOOL:

12 Q. Okay. So let me try to clarify the question. So have  
13 you treated a patient for chronic pain -- strike that.  
14 Have any of your patients -- sorry. Have you treated a  
15 patient for chronic pain that you have also treated with  
16 with mesh for pelvic organ prolapse?

17 A. So if the question is that if a patient had pelvic organ  
18 prolapse surgery done with mesh, and she comes and she  
19 also has pelvic pain, oh, yes, I have several patients  
20 who have -- most of whether they had preceding -- and  
21 most of these patients have what we call bladder pain  
22 syndrome or vulvodynia, there are several patients who  
23 have this in common. I especially see this more with  
24 stress incontinence and bladder pain syndrome or pelvic

1 pain syndrome more than with prolapse.

2 Q. Okay. Have you ever reported a mesh complication to  
3 anybody?

4 MR. WALKER: Object to form.

5 THE WITNESS: Yes, if it is complication, if  
6 you mean by that is an untoward event like, for example,  
7 when I was doing the Exair study and I had the mesh  
8 exposure that happened in the vagina, I have to report  
9 it as an adverse event.

10 BY MR. WOOL:

11 Q. Okay. And you reported that as an MDR?

12 A. No, it was to the IRB, Institutional Review Board, the  
13 IRB.

14 Q. And, I'm sorry, that was in what study?

15 A. Exair. E-x-a-i-r.

16 Q. Any others besides that?

17 A. When I -- well, any study that I do, if there is  
18 anything which is -- which meets the criteria for  
19 adverse event, it has to be reported to the  
20 Institutional Review Board.

21 Q. Okay. So would you agree that pelvic organ prolapse is  
22 a functional disorder?

23 A. What do you mean by that?

24 Q. That it's not life-threatening.

1       A.    No, I don't completely agree with that because I saw  
2            recently a patient who had a complete vaginal eversion  
3            and her ureters were part of that, and the ureters were  
4            kinked and she had significant hydronephrosis, so if  
5            this continued, her kidneys could fail, and that would  
6            become life-threatening. By the same token, there are  
7            patients with significant vaginal prolapse who could  
8            have urinary retention and they may not be emptying, and  
9            that could damage their bladder and cause perpetual  
10          bladder infections, so that could be life threatening.  
11          So I cannot really say that prolapse is not  
12          life-threatening.

13       Q.    Okay. Would you characterize those types of cases that  
14            you just described as common?

15                   MR. WALKER: Object to form.

16                   THE WITNESS: Those which I just mentioned are  
17            less likely to happen.

18       BY MR. WOOL:

19       Q.    Okay. So for most of the patients that you treat for a  
20            pelvic organ prolapse, is their prolapse  
21            life-threatening?

22       A.    For most patients, no.

23       Q.    For most patients, no. Would you describe pelvic organ  
24            prolapse as a serious condition?

1 MR. WALKER: Object to form.

2 THE WITNESS: I think that's something that we  
3 as physicians and across the table we can use, but it  
4 all depends upon what the woman thinks. For her it may  
5 be a serious condition, she cannot have intercourse with  
6 her husband because she doesn't want the vagina coming  
7 out, and for her this is life altering. You know, she  
8 would say I would like to have intercourse but I'm not  
9 having it because this thing is hanging out or every  
10 time I'm walking around I have to just find a corner to  
11 push this bulge in and it falls out again. So I don't  
12 think we can state that. I would say that the  
13 seriousness depends upon the patient's perception. If  
14 it is her perception that it is serious, well, then it  
15 is serious.

16 BY MR. WOOL:

17 Q. And so you said that it's based on the patient's  
18 perception, as I understand it?

19 A. That is correct.

20 Q. Okay. So that would be a condition impacting the  
21 quality of somebody's life?

22 A. That is right.

23 Q. That's the assessment you're making?

24 A. Predominantly.

1 Q. Okay. Predominantly. Okay. So on your website I  
2 believe you described prolapse as rarely serious. Is  
3 that your opinion today?

4 A. Yes.

5 Q. Okay. Now, how do you define success for prolapse  
6 repair?

7 A. It's, again, that is -- there are different ways of  
8 looking at it. What I believe in looking at a success  
9 is that you do something which the patient has a problem  
10 for, so you fix the problem, and you do not send her  
11 home with a new problem. That is success.

12 Q. Okay. So in your report you use a couple of metrics.  
13 You define success and some parts anatomically and some  
14 parts subjectively, objective, subjective, and  
15 composite; is that a fair assessment?

16 A. That is correct.

17 Q. Okay. So how do you define anatomic success or, sorry,  
18 let me just ask one more question. So when you say  
19 anatomic success, is that the same as objective success,  
20 those terms?

21 A. Let's see, well, objective success could be depending  
22 upon the parameter used, so if you're looking just  
23 exclusively from the point of your prolapse, only  
24 prolapse correction, then yes, but it could also mean



1           that objectively did she do better with her -- if we're  
2           talking about her incontinence, you know, or associated  
3           fecal incontinence, the associated symptoms, then it may  
4           not be just the prolapse, so then it may be different.  
5           But if you're looking from, example, the typical  
6           anatomic success would be based upon a POP-Q assessment,  
7           for example.

8       Q.    So in your report when you refer to objective success,  
9           that is not just limited to anatomic success?

10      A.    If it is the prolapse paper where I'm looking mainly for  
11           the vaginal bulge, then yes, if we're looking at  
12           objectively from the point of view of anatomic POP-Q.

13      Q.    So, yes, objective success is equivalent to anatomic  
14           success in your paper?

15      A.    From the prolapse standpoint.

16      Q.    From the prolapse standpoint, okay.

17                   MR. WALKER:  And, David, you used paper, you  
18           used report.  Could you maybe re-ask those to clarify  
19           what we're referring to because he does have literature  
20           that he's written.

21      BY MR. WOOL:

22      Q.    Right.  So in your published studies or any articles  
23           that you've written, the definition that you just gave  
24           me for objective success is the definition you use in

1 your studies?

2 A. That is correct.

3 Q. Okay. Now, is that an industry wide term, I guess would  
4 anybody, would any urogynecologist understand objective  
5 success as you described it?

6 MR. WALKER: Object to form.

7 THE WITNESS: It's -- no.

8 BY MR. WOOL:

9 Q. No? So in your expert report, I guess in some of the  
10 studies that you rely on, do you know if they define  
11 objective success the same way that you do?

12 A. Some did, some did not.

13 Q. Some did and some did not?

14 A. The difference, if you want to know, is that anatomic  
15 success typically has been defined as POP-Q stage 1 or  
16 better, that is the most dependent part of the vagina  
17 being -2 or better and -2 or higher, so that's the  
18 typical anatomic success. However, then Matt Barber  
19 from Cleveland Clinic, you know, they came up with a  
20 different definition of objective success which many  
21 people are now talking about, which is hymen, so does  
22 the vaginal bulge come up to the hymen. So now that  
23 changes. It's not stage 1 or stage 0, but even a Stage  
24 2 could be okay if it comes to -- if it's just above the

1           hymen. In other words, the most dependent part before  
2           was -2. Now the most dependent part should be better  
3           than 0.

4       Q.    So when you say before, what do you mean? Was there a  
5           time when this definition changed?

6       A.    There is a time period of -- it's still, today even the  
7           POP-Q definition holds, so there could be papers  
8           published which show that the anatomic success as I  
9           initially defined stage 0 or stage 1, many people may  
10          say that is pertinent, this is what I'm going to base my  
11          paper on. So it has not dramatically shifted from one  
12          to the other, it is a gray zone of both these things.  
13          What happened is over the past few years physicians  
14          started thinking about quality of life, and from a  
15          quality of life standpoint they started thinking what  
16          does she want? Not what do I want. Objective success  
17          is what do I think, how does the vagina look, what does  
18          she think? So when we started thinking what does she  
19          think, there was a study that came from South Carolina  
20          which was done from Charleston, and they looked at women  
21          who came for a normal Pap smear, and what they found is  
22          that 65 percent of women who came for a normal Pap  
23          smear, they had no complaints of a vaginal bulge, they  
24          had the vaginas almost coming to the opening, they had a

1           Stage 2 vaginal prolapse, so most people would say that  
2           is considered a failure, you know, but again she was not  
3           complaining. So then when it started -- people started  
4           thinking when would she be saying that, hey, this failed  
5           for me, this is not good for me, would it be that high  
6           or would it be low. So that's when they started looking  
7           at the quality of life and what does the patient say.

8           That's when the definition switched from stage 0 to  
9           stage 1, to prolapse at the hymenal ring or outside.

10        Q.    When you say the definition changed, you mean the  
11           definition of objective success?

12        A.    Correct.

13        Q.    Okay.

14        A.    So this is -- it includes subjective feeling that she  
15           says I have a bulge, but more likely women are going to  
16           say that I am bothered by the bulge, and this is a very  
17           good study from Denmark by Vierhout, V-i-e-r-h-o-u-t,  
18           from Denmark, and what they looked at was that when the  
19           vagina was coming to the opening, over 60 percent of  
20           women complained that they were having bothersome  
21           vaginal bulge, you know, that's why they said that let's  
22           switch objective success from stage 0 to stage 1 to  
23           anything that is just at the hymen or anything just  
24           above the hymen.

1 Q. Okay. Now, in your expert report you obviously cite a  
2 number of studies, and those studies, do they use a  
3 consistent definition of objective success?

4 A. No.

5 Q. No?

6 A. It's all over the place.

7 Q. Okay. And in describing the results using the term  
8 objective success in the study -- I'm sorry, strike  
9 that. So when you're describing the results of the  
10 studies in your expert report using the term objective  
11 success, does that definition change depending on the  
12 study?

13 A. It does.

14 Q. It does, okay. Now, how do you define subjective  
15 success?

16 A. So how do I define?

17 Q. How do you define and then I'll follow up.

18 A. So I define objective success -- subjective success as  
19 from the patient's standpoint, from prolapse standpoint  
20 we look at PFDI question number 3, which is from point  
21 of the view of the bulge, are you bothered by the bulge?  
22 And if she says no or slightly or rarely, then she is  
23 considered success. If she says somewhat or greater,  
24 she is considered failure from that question standpoint.

1           So most of our studies rely on that particular form. So  
2           what that allows us to do is it allows the patient to  
3           fill out a validated questionnaire, and we go by that  
4           validated questionnaire called the PFDI-20 to assess  
5           that rather than -- because if I ask someone, it's very  
6           vague, you know, how you ask. If I -- I could ask the  
7           patient and say you don't have a bulge, right? And  
8           she's more likely to say no. If I tell her do you have  
9           a bulge that's still coming out, she's more likely to  
10          say yes. So it all depends how the question was asked.  
11          So this again in literature has not being documented.

12                       So the best way if you really want to know  
13          about subjective answers, it is important to look at  
14          validated questionnaires and then follow these validated  
15          questionnaires. So no words are put in patients'  
16          mouths, they look at the question, they circle it, and  
17          then we just tabulate at the end and see what they have.

18       Q.   And are the questionnaires or the questions in the  
19             questionnaires measuring subjective success, are they  
20             uniform across most studies within the industry?

21       A.   No.

22       Q.   No? So the studies that you look at in your expert  
23             report, there are different definitions of subjective  
24             success?

1 A. Yes.

2 Q. Different criteria for each study?

3 A. Yes.

4 Q. So is there one sort of accepted definition of  
5 subjective success anywhere?

6 A. No.

7 Q. No? Okay. And you defined it in part as whether or not  
8 a woman is bothered by the bulge that she feels, so that  
9 would be whether or not in a way she is symptomatic, I  
10 guess?

11 A. From the bulge standpoint.

12 Q. Right, from the bulge standpoint. Do you see many  
13 patients who are not bothered by the bulge -- sorry,  
14 strike that. Let me see, do you treat many patients who  
15 have objective prolapse but not subjective symptoms?

16 MR. WALKER: Object to form.

17 THE WITNESS: A lot, a lot of patients come  
18 with that. I mean they would come in with something  
19 which is very, very important that you brought this up,  
20 because I have patients who can be sent by their  
21 gynecologist or their primary care physician, and they  
22 come in and they have a vaginal bulge, and it is  
23 obvious, they may have a stage 3 vaginal bulge where the  
24 vagina is coming outside. I ask them -- my first

1 question I always ask them based upon the PFDI is are  
2 you bothered by this, and she says no, then I show them  
3 the video, and I say this is your video, it's coming  
4 outside, are you bothered by this bulge? And she says  
5 no, I'm not bothered by it. That is most important  
6 thing for me. I say what are you bothered by? She said  
7 I go to the bathroom a lot, I've got urgency and  
8 frequency, and my doctor told me that maybe this bulge  
9 is causing your urgency and frequency. And I said let's  
10 wait. Let's figure out, it may be a bladder issue.  
11 Let's figure this out. And if it's not a bladder issue,  
12 then we'll eventually end up with this prolapse, but I  
13 see and what I do is I take care of that urgency or  
14 frequency or they may have like what you mentioned,  
15 chronic pelvic pain. Patient has a bulge, she comes  
16 with pain during intercourse, and bulge never causes  
17 pain during intercourse in most cases. So when I put --  
18 when we take care of her pain usually with  
19 neuromodulation and the pain is gone, now she has the  
20 same bulge, it's still coming outside, stage 3  
21 uterovaginal prolapse, and I ask them your pain is gone,  
22 are you able to have intercourse, are you bothered by  
23 the bulge? She says no. So I have a lot of women who  
24 have objective evidence of someone might say, oh, this



1 is a large bulge and should be fixed, but the patient  
2 has absolutely no symptoms.

3 BY MR. WOOL:

4 Q. Okay.

5 A. From the bulge standpoint.

6 Q. All right. Now, have you treated a patient that has no  
7 symptoms from that standpoint, from the bulge standpoint  
8 that objectively has prolapse?

9 A. Can you repeat that?

10 Q. I guess my question is have you treated a patient before  
11 that presents with no subjective symptoms with  
12 transvaginal mesh for prolapse?

13 A. No. I have treated them but not with mesh. So what  
14 happens is this. So let me -- I have to explain that to  
15 give you the answer. So let's say a patient has a  
16 vaginal bulge like what I described. Now she has  
17 urinary hesitancy, urgency, and frequency. However, on  
18 her voiding profile it seems that she's emptying well,  
19 so the bladder is coming out, intuitively you think,  
20 okay, the bladder is coming out, she's probably not  
21 emptying, that's why she has this urgency and frequency.

22 So what we do is we do some tests called  
23 urodynamics to assess whether the bladder is working  
24 well or not. Then I would do what is known as a pessary

1 therapeutic trial, so I put a pessary inside, reduce the  
2 bulge, push it back inside, and then see what she says.  
3 She may come back and say, oh, my God, that made a big  
4 difference, now I can empty better, my urgency and  
5 frequency has improved, this is great.

6 Then so we can say, okay, what the pessary did  
7 is it simulated a surgical repair, that's what surgery  
8 would do. So now correcting the vaginal bulge in  
9 someone like you who initially was not complaining of a  
10 bulge but has associated symptoms which were managed by  
11 reducing the bulge, in such a patient definitive  
12 treatment of prolapse would be recommended. So at this  
13 stage I would approach her and say, okay, you have  
14 noticed that your urgency and frequency have improved  
15 with the pessary. You could either continue with the  
16 pessary or we can go and take care of and repair this.  
17 And then she says yes, I had noticed the bulge, I had  
18 noticed the bulge, and since my symptoms have improved I  
19 would want to go ahead with this. That's one example.

20 Another example of what you said, no  
21 subjective symptoms, patient comes in and tells me I  
22 have this, I don't know, I didn't know this was a bulge,  
23 I'm not bothered by it. When we educate them, when I  
24 show them the video and say this is what is coming out,

1           this is what is happening, there's no damage, she's not  
2           one of those life-threatening patients I mentioned, she  
3           is doing fine, she is overall emptying her bladder well,  
4           she just has the bulge. However, once you make them  
5           aware that this is what it is, this is the bulge, this  
6           is where it should be, this is where your anatomy is, so  
7           then she says, oh, I didn't realize it was coming out  
8           that much, that's significant, let me go home and think  
9           about it. Now she starts understanding what is  
10          happening, and then she may say, yes, I want this fixed.

11                       The third scenario is where a patient  
12          similarly says I'm not bothered by this. Why? Because  
13          she has heard, read all these vaginal mesh ads on TV, so  
14          she says forget it, I do not want surgery. Once she  
15          comes in, she hears evidence-based information from us,  
16          the real balanced information, risks, benefits. Now she  
17          says yes, I was bothered by this, I was so concerned  
18          about what's out there on TV ads so I did not want to  
19          even get into this, but now that you've explained to me  
20          in a proper manner, I want this taken care of.

21                       So these are a few examples where a patient  
22          may not have subjective symptoms, has objective findings  
23          but actually does have some subjective symptoms linked  
24          to the objective findings; however, I did not treat just

1 the objective findings, I treated the subjective  
2 findings after counseling the patient and making her  
3 aware as to what she was experiencing.

4 Q. Okay. Now, in your own practice, how do you define  
5 success, one, objective, subjective, a combination of  
6 both?

7 A. So what we want, what we strongly believe is that I  
8 want -- like my composite score is I want to do  
9 something for her that she's come with, she came with a  
10 problem, I want to fix this problem, but I do not want  
11 to give her another problem. That's what we consider  
12 success.

13 Q. Not giving a patient another problem?

14 A. Correct.

15 Q. So if a patient doesn't present for another surgery or  
16 another treatment, that would be success?

17 A. No. If she came in with prolapse and I fix the prolapse  
18 and then she said that I did not have, you know,  
19 incontinence before, now I'm having incontinence, so she  
20 didn't have it before, now she's having it, so that  
21 means the surgery led to another problem. So we want to  
22 make sure that if we can therefore cover the whole  
23 thing, which is typically not reported, it's -- if you  
24 look at this composite score and look at anatomic score,

1 the anatomic score percentages will be 95 percent. To  
2 the eye it looks perfect, but to her it may not be  
3 perfect. So what matters to our practice and to me as a  
4 physician and a proponent of women's health is that I  
5 don't want to do anything that she did not come with. I  
6 hope I do no harm, that's my oath. So I want to do what  
7 I can do and I don't want to do any harm, so that's my  
8 success. So it's very -- it's -- I can't pin it to one  
9 thing, it's a general term, but basically factor about  
10 take care of the problem she came with, don't give her  
11 any new problems.

12 Q. So a combination of objective success, subjective  
13 success, and no new problems, is that a fair  
14 characterization?

15 A. That's correct.

16 Q. Okay. Now, in your own studies you typically use a  
17 composite score of success?

18 A. Yes, and, however, in the discussions usually to break  
19 it down to compare apples to apples, let's say if a  
20 paper has been published by Joe Shmoe and they discuss  
21 anatomic success only, so say our anatomic success was  
22 this and this is what they showed, because if you look  
23 at papers, a classic example I would give you is a paper  
24 that I was involved with, it's part of the Urinary

1 Incontinence Treatment Network, UITN, and it was a  
2 Tomus, T-o-m-u-s, and S-i-s-t-r study. In that, we  
3 mention absolute definition of cure, that on the MESA,  
4 M-E-S-A, which is an incontinence validated form, the  
5 patient has to say never, I have no problems, zero. So  
6 if she says no, no, no, then she's considered a success.  
7 Our success score with a sling, which is the fascial  
8 sling, was 50, 55 percent. The typically quoted success  
9 out there is 95 percent success. So how come ours was  
10 55 percent for fascial sling where theirs was 95  
11 percent? Because it's the definition of success. It  
12 was a very hard defined definition where she had to be  
13 absolutely a no. So if you look at our paper, at this  
14 55 percent, and someone else says these people are bad,  
15 but, no, the definition is wrong. Now, when we compare  
16 to what they define success as, which is an objective  
17 leak test, so she coughed and leaked, our success was  
18 very similar to theirs, when you look at that parameter  
19 that they went by, but not the strict parameter that was  
20 used in this study.

21 Q. So your definition of composite success in your studies,  
22 how is that measured, I guess? Is it a 50/50 split of  
23 objective and subjective or just tell me what the  
24 definition is.

1       A.     That's a very good point. So we look at everything,  
2             absolute, she has to meet all those criteria. For  
3             example, if I looked at, for example, the incontinence  
4             study I'm doing right now, it's very fresh in my mind,  
5             I'm doing a single incision sling right now, so that I  
6             would look at is she dry, number one. Number 2, does  
7             she have any de novo urgency, so the definition would be  
8             patient is subjectively dry, so on the MESA form she  
9             said I'm not leaking or, Number 2, objectively she's not  
10            coughing and leaking, so that's what she came for, her  
11            incontinence, that's one part. Did I give her anything  
12            bad? Does she complain? So then she should have no  
13            voiding dysfunction, she should be able to urinate fine,  
14            no catheter, no de novo dyspareunia, no de novo urgency  
15            incontinence, no mesh exposure, no de novo pelvic pain.  
16            So these are the bad things that could happen when I put  
17            a single incision sling. And so I think -- they have to  
18            answer no, no, no, no. So if they meet all that, then  
19            they consider it success.

20       Q.     Okay. And in your studies that you cite in your expert  
21             report, in all of them, I believe, the objective success  
22             rate is higher than your composite success rate?

23       A.     Yes.

24       Q.     Okay. And you would agree that the composite success is

1 more important to you as a physician?

2 MR. WALKER: Object to form.

3 THE WITNESS: Absolutely.

4 BY MR. WOOL:

5 Q. Okay. Let's see, so of your own studies that you cite,  
6 which are specific to the Prolift?

7 MR. WALKER: And, Doctor, feel free to  
8 reference your report.

9 THE WITNESS: Yes.

10 MR. WALKER: If that will help you.

11 BY MR. WOOL:

12 Q. I think you cite some 60 studies.

13 A. I think he's asking me about my studies.

14 Q. Yes.

15 A. It's the first one, the 315 patients.

16 Q. Okay. Have you ever been involved in a clinical trial  
17 comparing a midurethral sling to another pelvic surgery?

18 A. Like what? Pelvic surgery you mean?

19 Q. Being either a native tissue repair, any -- not -- any  
20 surgeries that don't involve mesh.

21 A. Yes, and that was the -- it's a Burch, it was the UITN  
22 study which is Burch versus the TVT.

23 Q. Now, are you currently working on any studies or writing  
24 any articles?



1 A. On what? Generally?

2 Q. Generally, yes.

3 A. Yes, we have about eight open clinical trials right now.

4 Q. And what do those involve?

5 A. One is -- most of them involve urinary incontinence  
6 studies and vaginal prolapse studies. So one is on the  
7 Exair mesh, the other is on Elevate vaginal mesh, third  
8 is on Miniarc sling, M-i-n-i-a-r-c, and the different  
9 derivatives of that, and I'm looking at an overall  
10 vaginal mesh outcome paper.

11 Q. Are any of those studies sponsored by an industry group?

12 A. The Exair was, it was at my -- it was -- that's a  
13 different thing, it's not sponsored by the definition  
14 that they made me do it, it's something called  
15 investigator initiated study. So I've made the  
16 proposal, I send it to their research division, and they  
17 get a lot of clinical trial requests, and they pick and  
18 choose and they say, okay, yours is a good trial, we  
19 would like to do that. So I have that for Exair. It's  
20 a vaginal mesh Exair study.

21 Q. But they financed part of the study?

22 A. They financed it, yeah.

23 Q. Okay. Have you ever published anything on the porosity  
24 of mesh?

1 A. No.

2 Q. Any publications on degradation of mesh?

3 A. No.

4 Q. Have you ever published on the shrinkage of mesh?

5 A. I don't understand these terms, though, but no.

6 Q. Have you ever published a study on mesh contracting or  
7 changing shape once it's implanted?

8 A. I don't even believe in that.

9 Q. So you haven't -- have you studied whether or not mesh  
10 contracts yourself?

11 A. Yes.

12 Q. Okay.

13 A. In my paper that I published, we looked at what is  
14 called a total vaginal length, and we assessed it before  
15 the procedure and after the procedure and concluded  
16 there was no difference in the length. It's similar to  
17 the paper by Dietz, you know, who -- and from Canada,  
18 what they did is they did an ultrasound study, and they  
19 found that there was no contraction of the mesh at the  
20 ultrasound.

21 Q. Now, what was the follow-up time in your study?

22 A. Let's see here -- look at my Prolift+M -- so this was a  
23 2008 to November 2010 composite score, so these are  
24 patients followed up at least a year out, at least one

1 year out the patients are followed up.

2 Q. And that was with the Prolift?

3 A. Prolift+M.

4 Q. Prolift+M. Any studies on shrinkage of mesh that  
5 involve the Prolift?

6 A. I don't believe in shrinkage of mesh.

7 Q. Or any clinical results that would either confirm or  
8 support the lack of shrinkage of mesh with the Prolift?

9 MR. WALKER: Object to form.

10 THE WITNESS: Can you repeat the question.

11 BY MR. WOOL:

12 Q. Sorry. Have you ever conducted any studies dealing with  
13 the Prolift where you measured the length of the vagina  
14 following the surgery to look for contraction of mesh?

15 A. Well, I did my clinical trial to see for outcomes like  
16 what I mentioned, so my main focus is to see what  
17 patient outcomes are and how she is doing and what are  
18 the results. As part of that, we looked at the vaginal  
19 length, and we compared the vaginal length before and  
20 after, and there was no change.

21 Q. Now, in the Dietz study that you referenced, did that  
22 study use Gynemesh or any mesh manufactured by Ethicon?

23 A. I would have to look at what they used, but what they  
24 did find was there was no shrinkage in the mesh, but I

1 don't remember if it was Prolift or Prolift+M.

2 Q. And you said you don't believe in shrinkage of mesh?

3 A. That is correct.

4 Q. And what's the basis for that opinion?

5 A. Because, if anything -- I mean there are several  
6 research papers that I have reviewed which basically  
7 show that if there is anything -- let me put it this  
8 way. So what happens is that once the mesh is put in,  
9 and we've seen this in normal prolapse management even  
10 with the pessary, when the vagina is falling out,  
11 typically the vaginal walls stretch, so it looks much  
12 larger. As the prolapse is reduced, for example, even  
13 when you put a pessary inside to reduce the bulge, over  
14 time the vagina is being a live tissue, it starts  
15 narrowing, it starts accommodating within itself because  
16 now it starts getting -- it starts shrinking, in other  
17 words, the vaginal walls itself. So the pessary that we  
18 use also goes down in size. So many a times we have to  
19 change it, if it is like a number 7 pessary, we'll go  
20 down to a number 6 pessary, because now the vagina has  
21 accommodated within its place where it was, because now  
22 it's not stretching and getting distended by the bulge.  
23 Similarly, in surgery what we do is we do not cut the  
24 vagina, we basically open the vagina, that's the beauty

1 of vaginal mesh augmentation surgery, you open the  
2 vagina, you put the mesh in, you therefore support the  
3 underlying organ, whether it's the bladder or enterocele  
4 or the uterus or the bowel. Once you support all that,  
5 then you close the vagina.

6 Now, before you close you can see that the  
7 vagina has already elevated -- the subvaginal area, the  
8 bladder is already elevated and it is held up by this  
9 augmented mesh. Now, the vagina eventually goes and  
10 conforms to that. So there is no shrinkage of the mesh,  
11 it's the surrounding tissue that accommodates to that  
12 mesh, the mesh being as it is. So then it is an  
13 apparent perception that the mesh and the whole thing is  
14 shrinking, but it is just accommodating to where the  
15 mesh has been placed.

16 Q. Okay. And have you ever conducted any ultrasound  
17 studies yourself?

18 A. No.

19 Q. No? Okay. So any studies you rely on besides the Dietz  
20 study to support this opinion?

21 A. Yes. There's a study, I think it was, if I'm not  
22 mistaken, it's Elmer, you know, the Nordic group, Elmer,  
23 they basically, what they showed is that the total  
24 vaginal length did not change during -- but they didn't

1 do an ultrasound study but did the vaginal length  
2 assessment study, and they did not see that there was a  
3 change in that. But of course my experience is very  
4 robust because I have done it with several -- I mean I'm  
5 quoting 250 patients I saw before and after.

6 Q. And all those patients are your patients, correct?

7 A. Yes.

8 Q. Any background in polymer science?

9 A. Myself? So if I have any training in polymer science,  
10 no.

11 Q. Are you a biomaterials expert?

12 A. No.

13 Q. No. Have you conducted any bench research on --

14 A. No.

15 MR. WALKER: Let him finish the question.

16 THE WITNESS: Bench research on --

17 BY MR. WOOL:

18 Q. On either Gynemesh in the Prolift or the mesh in the  
19 Prolift+M?

20 A. No.

21 Q. No? Have you ever evaluated mesh explants?

22 MR. WALKER: Object to form.

23 THE WITNESS: Could you explain what you --

24

1 BY MR. WOOL:

2 Q. Have you ever conducted a microscopic evaluation of  
3 explanted mesh?

4 A. No.

5 Q. No? Are you an expert in biofilm?

6 A. No.

7 Q. Are you a pathologist?

8 A. No.

9 Q. Polymer chemist?

10 A. No.

11 Q. Okay. And you're not a --

12 A. I'm not a pathologist by definition, but I do look at  
13 slides.

14 Q. And you're not a toxicologist?

15 A. No.

16 Q. And not a radiologist?

17 A. I do look at ultrasound, but I'm not a radiologist as a  
18 professional, so if I do an ultrasound I would look at  
19 it, we do anal rectal ultrasounds all the time in my  
20 office. So that's a very general term, but as a degree,  
21 I'm not a radiologist, but I do ultrasounds on my own.

22 Q. But no ultrasounds on your own studying mesh after it's  
23 been implanted?

24 A. No.

1 Q. Okay.

2 A. If there's a trial I proposed, but we haven't got the  
3 funding yet.

4 Q. Okay. Have you ever seen a pathological analysis of  
5 explanted mesh?

6 A. In what -- can you describe it? What do you mean by  
7 that?

8 Q. I guess just an analysis conducted by a pathologist of  
9 mesh that has been explanted from a patient.

10 A. It just -- in I think in literature --

11 MR. WALKER: Are you talking about a clinical  
12 study surveying multiple patients or just a single  
13 pathology report?

14 MR. WOOL: Right, either/or, I guess. Let's  
15 start with a single pathology report.

16 THE WITNESS: Pathology report, I am not sure,  
17 but I may have reviewed in one of these cases, I believe  
18 a report by a pathologist, Dr. Yacoff (sic) or  
19 something.

20 BY MR. WOOL:

21 Q. Now, any studies that you've reviewed -- any studies  
22 that you've reviewed of pathological analysis of  
23 explanted mesh?

24 A. Yes.



1 Q. Okay. And what studies were those?

2 A. It's a study by Clave from France, C-l-a-v-e.

3 Q. And is that the only study?

4 A. From -- and let's see, no, I can't recall the names, but  
5 I can -- I have the information, but I can't recall the  
6 exact names of the authors.

7 Q. Okay. So have you ever performed a study of  
8 polypropylene mesh and its effects on a woman's body?

9 MR. WALKER: Object to form.

10 THE WITNESS: Could you please repeat.

11 BY MR. WOOL:

12 Q. Have you ever performed your own clinical study of  
13 polypropylene mesh's effects once implanted?

14 A. Yes.

15 MR. WALKER: Same objection.

16 BY MR. WOOL:

17 Q. Okay. And what study was that?

18 A. All these studies, these are the effects of  
19 polypropylene mesh on the vagina, how the anatomy is  
20 corrected.

21 Q. Any of the studies deal with inflammatory response to  
22 the implanted mesh?

23 A. What do you --

24 Q. Did you ever study the inflammatory response of the body

1 to implanted mesh?

2 A. I don't think that exists. So I would not be studying  
3 something I don't believe exists.

4 Q. All right. Okay. So moving on, okay, now, are you  
5 offering a general opinion on the appropriate use of  
6 Ethicon mesh for stress urinary incontinence patients in  
7 this litigation?

8 A. I think it's more for the vaginal prolapse, I mean I  
9 could but it's more for vaginal prolapse.

10 MR. WALKER: Dr. Khandwala has only issued  
11 general reports for Prolift and Prolift+M.

12 MR. WOOL: Okay. I just wanted to clarify.

13 THE WITNESS: Yes.

14 BY MR. WOOL:

15 Q. Okay. And --

16 MR. WALKER: In Wave 1.

17 MR. WOOL: Right, just this, just Wave 1,  
18 okay.

19 Do you consider yourself an expert in  
20 polypropylene?

21 MR. WALKER: Object to form.

22 THE WITNESS: What do you mean by that?

23 BY MR. WOOL:

24 Q. I think the question's sort of self-evident, but on the

1 properties of polypropylene, do you consider yourself an  
2 expert on --

3 MR. WALKER: I mean are you talking about its  
4 use in vivo? Are you talking about from a biomaterials  
5 standpoint?

6 MR. WOOL: From a biomaterials standpoint.

7 THE WITNESS: I have a lot of knowledge about  
8 the mesh and the material because I have used it  
9 extensively since -- decades now polypropylene.

10 BY MR. WOOL:

11 Q. So --

12 A. So clinical information, I have theoretical information,  
13 because that's when I mentioned about why did I go from  
14 Prolift to Prolift+M and how the mesh changed, you know,  
15 what was the addition of Monocryl, so I was very much  
16 interested in knowing what this thing was, so from that  
17 standpoint, yes, I do have.

18 Q. So you would consider yourself an expert?

19 A. Well, I don't know what that means, but from --

20 MR. WALKER: Object to form.

21 THE WITNESS: -- overall from the knowledge  
22 basis and I think it's a very subjective term, expert.

23 BY MR. WOOL:

24 Q. Have you ever studied the effects of, I guess, human

1 tissue on polypropylene, not looking at, say, the  
2 patient but looking at the polypropylene mesh after it's  
3 been implanted?

4 A. Well, I always follow my patients, and I've been doing  
5 this -- they usually come in at the 2-week visit, the 6-  
6 week visit, three months, six months, 12 months, and we  
7 try to get them at their 24-month visit. So this is the  
8 best way to see a patient, this is in vivo. So I'm  
9 examining these patients, I can feel how it looks, I can  
10 see the vagina, I can feel at the same time I hear the  
11 story. So that's the best study you can ever do is in  
12 vivo. Nobody can do a better study than a physician  
13 examining a patient who has been implanted by a  
14 polypropylene mesh over a period of time.

15 Q. And so in that instance, you're examining the patient  
16 and the vagina, correct?

17 A. Correct, and asking her symptoms and her history.

18 Q. But you're not particularly looking at the polypropylene  
19 itself, are you?

20 A. In a way I am, right, because if the polypropylene is  
21 implanted in her, you know, if something is going on, I  
22 would know that. If it's good, that means if it's  
23 perfect, that's what we want. So if there is no  
24 complaint from the patient, there is nothing bad

1           happening, and we are following this up, I mean who  
2           better could know the effect of polypropylene in the  
3           vagina than the physician who is following this patient  
4           over time, because you're looking at it, you know what  
5           you're looking at. If there's something that is  
6           happening, you would obviously be able to identify it.

7       Q.   But what you're not looking at, I guess, and this is my  
8           question is you're not looking at the effect of the  
9           vagina on polypropylene, are you?

10                       MR. WALKER: Object to form.

11                       THE WITNESS: I'm looking at the interaction,  
12           it's an interaction, the vagina on the polypropylene,  
13           the polypropylene on the vagina, so it's the  
14           interaction, because as you examine the patient, you see  
15           the interaction of this whole thing. So I don't think  
16           we can differentiate. I think the best way to look at  
17           it is how does she feel? How does she feel herself with  
18           this thing in, and how do I feel on exam. So it's a  
19           combination. So on exam what I basically described, you  
20           know, what you mentioned is the total vaginal length.  
21           From the history, what she is saying is how does she  
22           feel, and she says I can have intercourse, I am very  
23           happy, you changed my life, I do not have any other  
24           problems. Well, that's all that matters. That's really

1 all that matters. That's exactly why we're using this  
2 mesh in human bodies, is because all that matters is are  
3 we changing this person's quality of life, and that's  
4 what I am about.

5 Q. Okay. So I guess given that you're looking at the  
6 quality of life of the patient, would it matter if mesh  
7 degraded a bit?

8 MR. WALKER: Object to form.

9 BY MR. WOOL:

10 Q. As long as the quality of life is sufficient?

11 MR. WALKER: Object to form.

12 THE WITNESS: I have done this vaginal mesh  
13 reconstruction for over a decade, and I've done it in  
14 over a thousand cases, I probably have 1,500 cases where  
15 I've implanted polypropylene. I've never seen this  
16 happen.

17 BY MR. WOOL:

18 Q. Okay. And you're offering a general opinion on the use  
19 of polypropylene mesh?

20 A. In prolapse.

21 Q. In prolapse, yes. Okay. So let's take a look at your  
22 general report, and I know you have a copy of that.

23 I've got one. Let's mark this as Exhibit 5.

24

1 KHANDWALA DEPOSITION EXHIBIT NUMBER 5,  
2 DEFENSE EXPERT GENERAL REPORT OF  
3 SALIL KHANDWALA, M.D.  
4 WAS MARKED BY THE REPORTER  
5 FOR IDENTIFICATION

6 BY MR. WOOL:

7 Q. And if you look at Page 7, it looks like you're saying  
8 that that mesh provides a high first-time success rate  
9 and an attractive safety profile?

10 A. Which paragraph are you reading?

11 Q. It looks like the second to the last paragraph.

12 A. Yes.

13 Q. Okay. So how do you define safety profile?

14 A. So that there are two things, operation combining higher  
15 rates of first-time success with an attractive safety  
16 profile.

17 Q. So just the safety.

18 A. Safety is where there is no problem or complications  
19 that I would see or my patient would encounter on the  
20 safety standpoint. So now there are different aspects.  
21 What I'm talking about is the surgery. So I'm not --  
22 this is -- so it's important to define what is being  
23 discussed. We're talking about vaginal mesh surgery, so  
24 it's an entire procedure, not just about placement of a

1 particular material, you know. So how does that whole  
2 surgical experience impact her overall outcome from the  
3 point of view of any untoward outcomes? That's safety.  
4 So she should not have any untoward outcome such as the  
5 bleeding, infection, injury to the neighboring organs,  
6 and all those things, and then any functional outcomes  
7 afterwards, reoccurrence of prolapse, de novo  
8 incontinence, whether it's urinary or bowel, de novo  
9 pelvic pain, de novo pain during intercourse, so all  
10 those things are involved when we discuss safety.

11 Q. So you're looking at safety both in the surgical process  
12 itself and the results following?

13 A. Correct.

14 Q. Okay. And what's the basis for the opinion on the  
15 safety profile of mesh in pelvic organ prolapse surgery?

16 A. My experience.

17 Q. Your experience?

18 A. By that time I've done so many cases, and clearly it was  
19 very evident when I switched, as I had mentioned  
20 initially my frustration with vaginal native tissue  
21 repair with these large prolapses, because literally I  
22 realized at that time what am I doing? You know, I'm  
23 taking this uterus out and I'm putting nothing to  
24 nothing, it's all attenuated stuff, and every physician



1           would then tell their patients come back in a few years  
2           and it could last for a few years and it'll be back.  
3           Well, I don't want that. I wanted something that could  
4           be as permanent as possible, and what is the best shot I  
5           can give this patient. So when you're especially  
6           looking at that word what I mentioned large prolapses,  
7           which typically what I was discussing, stage 3, stage 4  
8           prolapses is where this has a higher success, and at the  
9           same time the safety has a lot of factors, it depends  
10          upon the surgical technique, you know, how do you  
11          dissect the patient's anatomy, what she presents, does  
12          she have recurrence, does she have scar tissue, there  
13          are so many factors involved.

14       Q.    So I guess is this opinion on the safety profile, is  
15              that limited to prolapses of stage 3 or greater?

16       A.    No. Any surgical intervention that's done for prolapse  
17              where I use in this case vaginal augmentation surgery,  
18              that's what I've alluded to.

19       Q.    Okay. So are you offering an opinion for the safety and  
20              efficacy of the Prolift or the Prolift+M for posterior  
21              surgery?

22       A.    Yes.

23       Q.    And what's that opinion?

24       A.    Well, many factors. Number one is my own personal

1 experience. I can tell you the main reason why I do a  
2 posterior vaginal mesh reconstruction -- for two  
3 reasons. One is when I go in and when I open up the  
4 vagina and I find that the tissue is completely  
5 attenuated, which is the tissue between the vagina and  
6 the rectum, then I would interpose a mesh, because,  
7 again, my goal is -- my main goal is I want to do the  
8 best I can for this patient at one time. I do not want  
9 this lady to come back again, that's number one.

10 Number two -- so attenuation of tissue is one.  
11 Second is the best apical lift that you can give is  
12 through a posterior mesh. So it's not just to repair  
13 the rectocele but mainly to support the apex, and that  
14 is the crux, what we -- most urogynecologists now  
15 believe the crux and management of vaginal prolapse is  
16 supporting the apex. The best way to support the apex  
17 is posteriorly. Anteriorly can be attempted. However,  
18 posteriorly is much better. That's the second.

19 The third thing is that if a patient  
20 essentially comes with a front wall prolapse and someone  
21 just does an anterior vaginal wall repair with mesh and  
22 they don't do a back wall repair, the problem is that  
23 there is a high risk of recurrence of the contralateral  
24 wall, and this has been shown in numerous studies,

1 especially the study from Amsterdam by Withagen,  
2 W-i-t-h-a-g-e-n. And they have shown that when you  
3 repair one wall, the contralateral wall can fail at a  
4 higher extent.

5 And so what I am is I am like an engineer of  
6 the vagina, for example. So let's say if you have this  
7 wall in this room. One wall has an obviously crack, and  
8 you get someone to repair it, you know, say, okay, fix  
9 this wall, but that engineer is now going to focus on  
10 what you've already seen. It's obvious -- if it's  
11 obvious to me as a lay person, it is obvious to the  
12 engineer. What they will focus on is how is the  
13 contralateral wall, is this wall sturdy enough or not,  
14 and they can do some tests and find out that this wall  
15 also is weak.

16 So when I examine a patient, the obvious wall  
17 could be the anterior wall falling down. However, there  
18 may be what is called as an obvious bulge but may be  
19 occult, may not be that obvious initially, because when  
20 the patient strains, the entire pressure goes along the  
21 front wall, so now the front wall is being subjected to  
22 the prolapse, but the back wall appears to be okay, but  
23 it may not actually be. So in a proper assessment it  
24 may look it's just as anterior wall prolapse, but it's

1           also an occult break at the posterior wall. So these  
2           are the different reasons, plus the paper that is  
3           published by Withagen I just quoted showed a 24 percent  
4           risk of recurrence after a nonmesh as opposed to 4  
5           percent with mesh for the posterior vaginal wall.

6       Q.    So I guess to clarify it, are you saying that mesh is  
7           safe and effective for treatment of posterior prolapse?

8       A.    Mesh is safe and effective when the indication is  
9           correct, just the indication I stated.

10      Q.    So when those indications are present, it's safe and  
11           effective for posterior prolapse?

12      A.    Absolutely. I can even tell you that there is a  
13           Cochrane review done by Chris Maher from Australia,  
14           M-a-h-e-r, and what he showed is that when they compared  
15           the mesh to nonmesh repairs, they said that in -- for  
16           posterior wall, it doesn't matter, mesh may not have an  
17           advantage, so that's very subjective. It depends upon  
18           every individual patient. So you can't generalize.  
19           Cochrane reviews are guidelines. See, most people,  
20           whenever statements are made, they are guidelines, they  
21           are guidelines that tell the physician, hey, this could  
22           be the way that you should be leaning towards or this is  
23           what is taught, suggested, but every patient is  
24           different. So if I go into a person and open up the

1 back wall of the vagina with the plan of, you know, she  
2 has a stage 2 rectocele, I'm just going to put the  
3 tissues together and do a native tissue repair, but when  
4 I go in and I open up the vagina and I find nothing, I  
5 said this -- in my experience, from what I am seeing  
6 here, there is nothing I can put together. I need to do  
7 something better for her. And that's when I would  
8 augment it. So it's very tailored, it's very  
9 individualized.

10 Q. Okay. So on Page 10, the last paragraph, you say that  
11 mesh augmentation has typically not been shown to be of  
12 added benefit to colporrhaphy.

13 A. That's the paper I quoted by Chris Maher, so that's the  
14 one I was talking about. So when Chris, when he showed  
15 this study and the meta-analysis, and looked at  
16 different studies, that posterior vaginal wall, mesh may  
17 not bring any benefit, but that again depends upon what  
18 it is. And the other paper I talked to you about was  
19 the Withagen paper and the paper by Myles Murphy, which  
20 is the FDA update or FDA rebuttal. In that FDA  
21 rebuttal, Myles Murphy clearly, in the paper that we  
22 wrote, it clearly shows that it has some effect. At the  
23 same time it's mainly indicated, it's mainly indicated  
24 for the apex. So when I'm supporting the apex, that is

1 key, and that is why a posterior approach is important,  
2 because it supports the apex. It's not necessarily to  
3 just correct a rectocele.

4 Q. Okay. So I guess given that opinion, I guess, can you  
5 sort of help me understand the reason for including the  
6 Maher study where I guess you say that they report no  
7 definitive conclusions about using mesh for posterior  
8 repair?

9 MR. WALKER: Where are you --

10 MR. WOOL: Sorry, the top of Page 11, first  
11 paragraph Page 11.

12 THE WITNESS: Yeah, so that's the Cochrane  
13 review I was mentioning. So I just want to be broad. I  
14 want to make sure that people when they read this report  
15 understand that there are two sides of the same thing,  
16 you know. You have -- there are reasons why it may not  
17 be, there are reasons why it may be. So ask me why  
18 would I use it? So do I always use a mesh in the  
19 posterior compartment? No. Just like what I mentioned.  
20 If the tissue is intact when I open it up, I put the  
21 tissue together, because, yes, posteriorly it's not that  
22 much of a problem. We do not see that much of  
23 recurrence. However, when you open it up and there is  
24 no tissue there, then you have -- and you should augment

1           it, so there is no way to know going in if you have a --  
2           most rectoceles could be Stage 2, so when you're going  
3           in, there is no way to know that am I not really going  
4           to put a mesh? Am I going to put a mesh? You never  
5           know what to expect until you open the vagina, and then  
6           you identify what is below that. And the second thing  
7           what I mentioned is for the apex. So what I've  
8           realized, especially we are one of the leaders in doing  
9           this vaginal mesh hysteropexy, so when we do the mesh  
10          hysteropexy procedures, if you are doing the uterine  
11          support, you have to have an anchor to the back wall of  
12          the uterus going to the sacrospinous ligament, and that  
13          is what the posterior mesh allows us to do. So the  
14          importance is not just for the rectocele. What he's  
15          talking about is overall just looking at a rectocele,  
16          but I'm talking about that that's why I put it in there.  
17          So, yes, for majority of reasons it may not be required,  
18          but for a lot of other reasons, especially now where the  
19          focus is shifting on the 2011, now it's shifting to the  
20          apex, we are now understanding that apex support is very  
21          important, especially when it comes to preserving the  
22          uterus, and that's what we have been doing, and that's  
23          the paper -- and that's where the posterior mesh is  
24          extremely important to hold it up.

1 BY MR. WOOL:

2 Q. So I guess is your opinion that in certain cases use of  
3 mesh in the posterior compartment is beneficial?

4 A. Yes.

5 Q. Okay.

6 MR. WALKER: David, I don't want to break your  
7 flow up, but by my count, we're at two hours, and  
8 perhaps we could take a break.

9 MR. WOOL: Yeah, that's fine with me. We can  
10 go off the record.

11 (A recess was taken from 11:21 a.m. to  
12 11:30 a.m.)

13 BY MR. WOOL:

14 Q. Are you offering a general opinion on the reactivity  
15 of polypropylene mesh for the Prolift?

16 A. Could you repeat, please?

17 Q. Are you offering a general opinion on the reactivity  
18 of polypropylene mesh for the Prolift?

19 A. What do you mean by reactivity?

20 Q. Does the mesh react with the tissue once implanted and  
21 either change shape or form for the Prolift?

22 A. See, what I look at, as I've mentioned, is that my  
23 opinions are based upon what has happened over time when  
24 I'm implanted this mesh, and I contend that ever since I



1           started implanting the mesh I have never had any issues  
2           which -- what you mentioned like a reactivity, I've  
3           never had --

4                       MR. WALKER: Just to clarify, like I stated at  
5           the beginning of the deposition, he is prepared to offer  
6           opinions on the biocompatibility of the mesh in both  
7           devices.

8       BY MR. WOOL:

9       Q.    Right, I guess to clarify, what I would say is it's my  
10           understanding that you would say that the Prolift+M does  
11           have some reactivity and that -- what's the chemical  
12           that I can never remember --

13                   MR. WALKER: The Monocryl?

14       BY MR. WOOL:

15       Q.    Yeah, Monocryl dissipates over time.

16       A.    Yes.

17       Q.    So with the Prolift, I guess, no part of -- it's your  
18           opinion that no part of the mesh dissipates or  
19           disintegrates, changes over time?

20       A.    That is correct.

21       Q.    Okay. And with the Prolift, it's your opinion that the  
22           Monocryl dissipates over time?

23                   MR. WALKER: Object to form. I think you  
24           misstated that.

1 THE WITNESS: Prolift+M.

2 BY MR. WOOL:

3 Q. Yes, sorry, sorry. The question should be and it's your  
4 opinion for the Prolift+M that the Monocryl dissipates  
5 over time?

6 A. Correct.

7 Q. Okay. Now, shifting back to the Prolift, what is the  
8 basis for your opinion that the mesh is not reactive?

9 A. My clinical experience, you know, I have -- I can tell  
10 it from different ways. One is just following patients  
11 over time, which is the main basis, what patients are  
12 doing, how do they feel, how do they -- and on exam and  
13 different ways of examination, dynamic, which is during  
14 intercourse, how do they perceive that, and during my  
15 physical examination during follow-ups, that's the main  
16 basis.

17 Q. Okay.

18 A. Second --

19 MR. WALKER: Go ahead, continue.

20 THE WITNESS: I'm sorry, what exactly are you  
21 asking?

22 BY MR. WOOL:

23 Q. Can you read the question back?

24 A. I think I got it. The second part I think you mentioned

1 is that is there any concern, and even when I have seen  
2 patients, what I mentioned about with proper placement,  
3 it looks as though the vagina has been reverted to  
4 normal anatomy, that's what it is.

5 Q. Okay. And the study that you looked at, I believe the  
6 Dietz study that formed part of the basis for your  
7 opinions on shrinkage and contraction of mesh, did that  
8 study focus on Ethicon mesh specifically or do you --

9 A. You know, that, I don't recall whether it was -- which  
10 type of mesh -- what it was focused on. I can review it  
11 quickly and tell you.

12 Q. Sure.

13 A. Sure.

14 MR. WALKER: Do we have that in the stack?

15 We can look for it during a break.

16 BY MR. WOOL:

17 Q. Okay. And you state in your report that the FDA's  
18 opinion on contracture is not supported by data,  
19 correct? I believe it's about Page 16 of your report.

20 MR. WALKER: Are you talking about the bottom  
21 paragraph?

22 MR. WOOL: Yes, the last paragraph on Page 16.

23 THE WITNESS: Yes. I'm sorry, can you please  
24 repeat the question.

1 BY MR. WOOL:

2 Q. It was, I believe it was whether or not it's your  
3 opinion that the FDA's opinion on contracture was not  
4 supported by data?

5 A. That is correct.

6 Q. Okay. And what is the basis for your opinion on that?

7 A. Well, it's my own personal experience that I have never  
8 seen a mesh contraction, even in -- even in examples I  
9 can give you is when there is exposure which I have  
10 managed expectantly over a long period of time, so  
11 exposure I define as when the vaginal mesh is seen in  
12 the vagina, where the epithelium is separated and you  
13 can see the mesh, in all those cases, also, when we  
14 follow these patients up it does not change at all, even  
15 though the mesh is exposed to the vagina which has its  
16 own bacterial flora, it still does not change form, it  
17 remains as is.

18 Going further, when I have removed in a few  
19 cases those exposed mesh pieces, they were strong as  
20 though I had just put in yesterday, so nothing has  
21 happened to this. Despite the fact that it has been  
22 exposed to the vaginal flora, nothing changes. So there  
23 is no contraction, nothing happens. So my clinical  
24 experience clearly shows that this does not happen, and

1 it has been supported in literature, also.

2 Q. So when you follow up with patients, what is the time  
3 frame that you're typically looking at?

4 A. So we see our patients back in two weeks, then in  
5 between four to six weeks, then three months, six  
6 months, 12 months, and then try to get them at 24  
7 months.

8 Q. Okay.

9 A. And then 36 months if feasible or if part of a clinical  
10 study.

11 Q. Okay. And at all of these junctures you are measuring  
12 contraction by looking at the vagina itself?

13 A. So we -- at every visit we do a few things. First of  
14 all, we give the patients validated questionnaires, and  
15 then we compare the validated questionnaires to the ones  
16 before, so these are just tabulated, and these include  
17 the ones I mentioned, the PFDI-20, which goes over the  
18 prolapse questions. Then we examine the patient and do  
19 a POP-Q assessment on every patient who comes in for  
20 subsequent visits, and we note that, which includes the  
21 total vaginal length, and that is how we compared in  
22 that paper whether there was a change in vaginal length  
23 from before to after based upon that evaluation, and we  
24 also do the palpation of the vagina.

1 Q. Okay. So I guess would you agree that contraction or  
2 shrinkage of mesh would be an objective type of  
3 measurement?

4 A. Well, first of all, I don't think that, as I've  
5 mentioned before, I don't think the mesh shrinks, that  
6 doesn't happen. So if it doesn't happen, there is no  
7 way to measure it. I've always maintained and I've  
8 always seen that it is the vagina which conforms back to  
9 normal anatomy, and because it conforms back to normal  
10 anatomy it appears that it's shrinking, but it's  
11 actually just -- it's a live -- vagina is live tissue,  
12 and it's going back to where it was placed. Think about  
13 this. You have this vagina which is falling out, so  
14 it's all distended and separated because it's falling,  
15 so it's distending. Now you put it back inside, it's no  
16 longer distending, nobody's putting stretch on it, so  
17 now it being a live tissue, it's now reorganizing itself  
18 and it conforms to its normal surroundings. You know,  
19 that's why it appears as though there is shrinkage, but  
20 actually it's returning back to what it was normally  
21 there before prolapse happened. Prolapse led to -- so I  
22 would actually say opposite, I would say that prolapse  
23 led to the vagina getting distended and opened up wide,  
24 that's why it's coming out, so the more it bulges, the

1 more it stretches. Once you put it back, you are  
2 actually returning it to normal. So what some people  
3 may say is shrinkage, what I'm saying it's returning to  
4 normal vagina.

5 Q. Okay. And could a patient questionnaire give you an  
6 objective measure of mesh shrinkage, imagine for a  
7 minute that this was something that you believed in?

8 A. Well, first of all, I don't believe it, so I can't say  
9 that. But if the patient -- the typical thing let's say  
10 if there was any operation done in the vagina is  
11 associated with some scar tissue formation, it has to  
12 happen. Scar tissue essentially is a -- essentially  
13 whenever you put a foreign body, there are seven things  
14 that happen: First is there's injury because you're  
15 dissecting that space. Second is something called  
16 protein absorption, so there's bleeding, and from the  
17 blood vessels there's protein that comes out, and that  
18 protein attaches and called protein absorption. Third,  
19 there is acute inflammation, which is release of  
20 something called neutrophils. Once acute inflammation  
21 settles, then there is something called chronic  
22 inflammation where there's monocytes or macrophages that  
23 come in, that's the fourth step, macrophages that  
24 coalesce to form what is known as giant cells of multi-

1           nucleated macrophages or giant cells. This is called a  
2           foreign body reaction, which is the fifth step. The  
3           sixth step is granulation tissue formation, which is  
4           fibroblast and vascularity comes into that space, so  
5           there's neovascularization with fibroblasts, and the  
6           seventh step is encapsulation. This happens no matter  
7           where you do it. I do a lot of interstim procedures,  
8           which is placement of a pacemaker, the battery, in the  
9           buttocks, and that's for overactive bladder control, for  
10          example. So when I go in, suppose I have to replace the  
11          battery because the battery's expired, not working, when  
12          you open up, you can see this encapsulation. It happens  
13          with a cardiac pacemaker, it can happen with this  
14          pacemaker, it happens with hip prosthesis, it can happen  
15          with any foreign body, there is this classic something  
16          called foreign body reaction, it happens.

17        Q.    Okay. So, for example, an ultrasound study like the  
18               Dietz study, would that give you an objective measure  
19               that the mesh is not contracted?

20        A.    It would look at the mesh and say how it was placed.  
21               The big difference is it has to be done before and  
22               after. So if they did it before and they saw how the  
23               mesh was and afterwards and you see how the mesh is, all  
24               it can tell you is that was that -- did the mesh itself,



1           how was it laid? And in that study, what they found  
2           that there was no shrinkage of the mesh itself. It was  
3           more of the tissues around it rather than mesh itself,  
4           you know, which was the problem.

5       Q.    So that you're saying definitively tells you that there  
6           was no mesh shrinkage?

7       A.    That's correct.

8       Q.    Okay. And so could a patient questionnaire ever give  
9           you a definitive answer, objective answer on something  
10          like that?

11      A.    A subjective answer, yes, because it will give you a  
12           subjective answer, a questionnaire. So it'll tell you  
13           what she's thinking. So a classic thing is if there is  
14           any contraction or scarring, you know, or shrinkage of  
15           the vagina or the vaginal epithelium, her main thing is  
16           going to be pain, discomfort during intercourse because  
17           of loss of elasticity. And that is more likely to  
18           happen in native tissue repair than with mesh as has  
19           been shown by several papers, Niemenen's paper,  
20           N-i-e-m-e-n-e-n, or Noonan and Brunett when they  
21           published the paper, they showed that patients had  
22           pelvic pain which is more resolved after mesh and more  
23           pelvic pain persistent after native tissue repair. So  
24           this is an element of operation in the vagina and what

1 is done. So scar tissue formation decreases elasticity,  
2 because when fibroblasts form, you have scar tissue, so  
3 elasticity goes away, and when the elasticity goes away,  
4 you do not have that distensibility that normally  
5 happens at foreplay, for example. So what the patient  
6 will tell you is I have pain during intercourse. You  
7 know, that is the only thing that she could tell that I  
8 have possible scarring.

9 Q. And I'm sorry to interrupt you, I don't think that  
10 you're answering my question, which was would a patient  
11 questionnaire give you an objective measure of whether  
12 or not mesh was shrinking or remaining inert?

13 MR. WALKER: Object to form.

14 THE WITNESS: It doesn't make -- I'm sorry,  
15 but the question doesn't make any sense because  
16 objective measures what is assessed by independent  
17 observer. What the patient says is subjective. So  
18 patient can't give objective because she's not going to  
19 go inside and measure, so that's something done by  
20 independent, someone not the patient.

21 BY MR. WOOL:

22 Q. So would you agree that a patient questionnaire cannot  
23 give you an objective measure of whether or not mesh  
24 shrinks in vivo?

1 A. Yes.

2 MR. WALKER: Object to form.

3 BY MR. WOOL:

4 Q. Now, are you offering a general opinion on the porosity  
5 or weight of the Prolift mesh?

6 A. Yes.

7 Q. And what's your opinion?

8 A. In what regard? Can you be more specific, please.

9 Q. Yeah. I guess let me ask, I guess, a different  
10 question. For the Gynemesh used in the Prolift, has the  
11 pore size remained constant?

12 A. So the mesh that --

13 MR. WALKER: Object to form.

14 THE WITNESS: The mesh that's used in Prolift  
15 is not Gynemesh, it's Gynemesh Prolene Soft, so it's  
16 Gynemesh PS, so can you again --

17 MR. WALKER: Could you clarify what you mean  
18 by constant?

19 BY MR. WOOL:

20 Q. So throughout your use of the Prolift system, has the  
21 pore size of the Gynemesh remained the same? Sorry,  
22 has -- okay, strike that, strike that. When you  
23 received the kits of the Prolift from Ethicon, the size  
24 of the pores of the Gynemesh prior to insertion now has

1           been constant throughout your use of the product?

2       A.    The size of the mesh pore size is about 2.4 millimeters.  
3           There's no way any physician goes and starts measuring  
4           these pores and sees if it's constant or not. It is  
5           impossible for anybody to say whether it's constant or  
6           not.

7       Q.    Okay. Let's see now, are you offering an opinion on the  
8           flexibility or stiffness of either the mesh in the  
9           Prolift or Prolift+M?

10      A.    What -- how do you want --

11      Q.    Let's see, I believe it's on -- let's go to Page 12 of  
12           your report. So at the second paragraph down, and this  
13           is discussing the Prolift+M, you're stating that the --

14      A.    Yes.

15      Q.    -- the longitudinal, and I'm quoting here, the  
16           longitudinal stiffness decreases allowing for the  
17           expansion of the neighboring viscera and, hence,  
18           potentially decreasing the potential risk of  
19           dyspareunia. So I guess what is the basis for that  
20           statement?

21      A.    So this is what I initially mentioned, when I switched  
22           from Prolift to Prolift+M I think you had asked me why  
23           did I make the switch, and I told you that I was  
24           clinically hesitant to make that switch because I was

1           enjoying such great results with the Prolift. However,  
2           the structural properties of this, you know, the  
3           potential advantages, potential advantages, the key word  
4           is potential, were enticing enough to make the change,  
5           in that when the engineers told me that the lateral  
6           structural integrity of this mesh is preserved, that  
7           means its support should be good, but once Monocryl  
8           disappears, the longitudinal flexibility improves, that  
9           means it can stretch better vertically, then, as we  
10          mentioned, maybe that we have a better impact at sexual  
11          function, because sexual activity is more longitudinal,  
12          as the partner is going inside it's more of a  
13          longitudinal movement of the vagina. So then you think  
14          intuitively it makes sense. Until you actually put it  
15          into practice and study it over time, you never know,  
16          you know. So this is when we just got them, it was just  
17          out, so there's no way you can know until you've studied  
18          several women over a period of time.

19       Q.   And have you conducted such a study?

20       A.   Yes. So talking about my Prolift+M study, as you can  
21          see, if I could refer to that, which is Page 14, it's a  
22          prospective study on 157 patients, and you can see de  
23          novo dyspareunia was noted in 6 percent of 50  
24          subjects -- in 3 of 50 subjects. The typically quoted

1 dyspareunia rate for mesh prolapse surgery has been  
2 between 14 and 36 percent.

3 Q. So I guess my question is is there an actual way to  
4 measure the objective lateral support of the Prolift+M  
5 mesh once it's implanted?

6 A. I don't know.

7 Q. Don't know, okay. And in your study, I guess -- strike  
8 that. So my question is your conclusions on the lateral  
9 support and/or longitudinal stiffness are hypothetical  
10 based on the results of this study?

11 MR. WALKER: Object to form.

12 THE WITNESS: It's longitudinal support and  
13 lack of longitudinal stiffness, so it becomes  
14 longitudinally flexible, not stiff, that's what the  
15 Prolift+M does. So what we then look at is when the  
16 engineers come up and tell us that, hey, these are the  
17 properties of this mesh, these could be potential  
18 advantages of the mesh, which is if it is longitudinally  
19 more flexible and less stiff, it may help with sexual  
20 function, and then we go back and do clinical trials and  
21 see is that true? And, sure enough, I did note that in  
22 my study that our incidence was 2.2 percent which is a  
23 very low risk of dyspareunia. Now, granted there was  
24 157 patients prospectively followed up, you know, over a

1 period of a year. Still, it is a good number. Now,  
2 that doesn't -- what we look at is is there a clinical  
3 correlation, and that's really what matters. What is --  
4 how do you know whether this lateral -- as you  
5 mentioned, can you objectively state that the lateral  
6 stability of this mesh can -- can you say that the  
7 lateral stability of the mesh, can this be objectively  
8 studied? Yes, in the sense that she doesn't have  
9 recurrence of prolapse or recurrence of prolapse is low.  
10 That means you know it's doing its job. So the reason  
11 why this mesh was altered was to see that can we  
12 maintain this support of Prolift that was very good, can  
13 that be maintained while trying to improve some of the  
14 pliable issues of the mesh so that it becomes more  
15 compatible with vaginal function such as intercourse.  
16 Could we, therefore, as stated here, some papers were  
17 saying 36 percent dyspareunia, some papers said 14  
18 percent dyspareunia, can we start decreasing some of  
19 these percentages so that ultimately what I started as  
20 talking about outcome, can we do something which helps  
21 her, what she came for and prevent harm. So that's why  
22 I switched. And, yes, maybe it makes intuitive sense,  
23 but can I put it in clinical practice and does it come  
24 out so? And sure enough, you know, at least you have

1 less problems if that happens, and you have same  
2 success, you know, why not.

3 BY MR. WOOL:

4 Q. So I guess comparing the results that you've had in your  
5 studies with the Prolift versus your studies with the  
6 Prolift+M, I guess what I'm asking is are you  
7 attributing any better or the superior rates of de novo  
8 dyspareunia, et cetera, to the properties of the +M, to  
9 the properties of the mesh of the +M?

10 A. I don't think I've noticed the difference, and I can't  
11 really compare these two studies per se because they're  
12 not head-to-head comparisons. The only time I can  
13 really tell you apples to apples is if I'm doing a  
14 randomized clinical trial of Prolift and Prolift+M. But  
15 what this was, one was a retrospective study, which was  
16 the Prolift, and that's over 315 cases already done.  
17 The other was a prospective trial. They're two  
18 different study designs at the same time two different  
19 study periods, so it was not at the same time so I  
20 can't --

21 Q. Okay. So to be clear, I guess --

22 MR. WALKER: I'm sorry, could I just interrupt  
23 and ask was your question confined to the studies that  
24 he has done or --



1 MR. WOOL: Yes.

2 MR. WALKER: Or to the medical literature in  
3 general?

4 MR. WOOL: No, to his studies.

5 And so I guess I'll ask the question of do you  
6 believe that the medical literature in general shows  
7 that the mesh in the +M has a clinical effect on  
8 decreasing dyspareunia rates?

9 MR. WALKER: You mean as compared to Prolift  
10 or compared to what?

11 MR. WOOL: As compared to Prolift.

12 THE WITNESS: From what I recall, I don't  
13 recall any head-to-head comparison in a randomized  
14 clinical trial Prolift versus Prolift+M. However, I  
15 could state this: When the one-year Prolift+M trial was  
16 done, you know, they did say that the success could be a  
17 tad not as good as Prolift. However, it was just a one-  
18 year follow-up. So I look at it, you know, they are  
19 very much similar. So initially it was attributed that  
20 maybe Prolift+M is better, but there was not much  
21 difference. So when you look at cohorts studies done  
22 with Prolift, studies done with Prolift+M, nothing  
23 really stands out, you know, that, yes, it was a  
24 dramatic change, dyspareunia went down significantly or

1 mesh erosions disappeared, you know, nothing like that  
2 happened. So they are very much in the same ballpark.  
3 Now, maybe they could be -- and, see, when you come to  
4 certain subtle things, when the incidence of a  
5 complication is very low, so, for example, the incidence  
6 of complication of erosion was like 3 percent or 4  
7 percent, you need a large sample size to see a  
8 difference, you know, so in this case there may have  
9 never been done large clinical trials comparing these  
10 two procedures at a time.

11 BY MR. WOOL:

12 Q. Okay. So I guess --

13 A. So can I say -- so my opinion is that there's  
14 essentially no difference clinically between Prolift and  
15 Prolift+M that I experienced.

16 Q. Okay. Now, did we say at the beginning that you're  
17 offering a general opinion on the design of the Ethicon  
18 Prolift or Prolift+M?

19 A. The kit, yes.

20 Q. Sorry, what did you say?

21 A. The mesh characteristics.

22 Q. Okay, the mesh characteristics?

23 MR. WALKER: When you say design are you  
24 talking about the mesh characteristics or everything

1           that goes with the kit?

2                       MR. WOOL: Right, everything that goes with  
3           the kit.

4                       THE WITNESS: Yes.

5   BY MR. WOOL:

6   Q.   So you do have an opinion on everything that goes along  
7       with the kit?

8   A.   Yes.

9   Q.   Okay. And what is that opinion?

10   A.   It depends upon the question.

11                      MR. WALKER: For which product?

12                      MR. WOOL: Sorry, let's start with the  
13       Prolift.

14                      THE WITNESS. What specific question?

15   BY MR. WOOL:

16   Q.   I guess where in your expert report is your opinion  
17       related to the design of the Prolift kit?

18   A.   So from the -- it's more from the point of view of  
19       usage. So how does a Prolift kit respond in the human  
20       body. So when we talk about the Prolift kit it's --  
21       there are two parts. One is the trocar, second is the  
22       mesh itself. We're talking about the trocars when  
23       looking at is there any complication that happens from  
24       that. So looking from that, you say, okay, was there

1 any specific injuries that happened because of insertion  
2 of these trocars in the human body. Number two, looking  
3 at the mesh itself. For the mesh, I'm looking at  
4 success and complications. So that's what. I'm not  
5 looking at how it is packaged, that's not my opinion on  
6 the packaging of the mesh. My opinion is it's used in  
7 the human body and the ease feasibility of maneuvering  
8 these instruments in the body.

9 Q. Okay. And I guess your opinion is that it's safe and  
10 effective?

11 A. Yes.

12 Q. Okay. And what is the basis for that opinion?

13 A. For safe and effective?

14 Q. Yes, of the Prolift.

15 A. It's my extensive clinical trial, I mean I have been  
16 doing this -- I was doing it for almost like four years  
17 and followed that after, and we have enjoyed  
18 unbelievable results with the Prolift system. At the  
19 same time, if you look at the medical literature, it  
20 abounds with fantastic results. It's not only about my  
21 experience, it's not that, okay, well, Khandwala, he's  
22 the only one outlier. If you look at the whole -- most  
23 of the urogynecologists using the mesh, whether it is in  
24 the United States, whether it is the Nordic countries,

1           whether it is in Australia, whether it is in -- not  
2           Australia -- Amsterdam, you know, the Withagen group,  
3           any of these physicians would tell you that from the  
4           literature that the success that they enjoyed was  
5           phenomenal.

6       Q.    Okay. Now, if you look at Page 12 of your expert  
7           report, the last paragraph, you described this  
8           retrospective study with 315 cases.

9       A.    Yes.

10      Q.    Was that a published study?

11      A.    No, we sent it for publication, and they asked for some  
12           alterations, and we waited for those alterations to  
13           happen, and now we're combining all these, the Prolift  
14           and Prolift+M.

15      Q.    And where is the data for that -- or I guess strike  
16           that. First, what form is the data currently contained  
17           for that study?

18      A.    It is in a spreadsheet, so Excel spreadsheets, and we  
19           have this whole data compiled in our practice.

20      Q.    Okay. And have you provided that data with any of the  
21           materials that you've provided today?

22      A.    No, not the data.

23      Q.    Will you?

24      A.    I could.

1 MR. WALKER: And let me just state for the  
2 record and interrupt you, Doctor, that I believe we have  
3 filed objections that relate to this, that those  
4 objections have been filed to the specific request in  
5 the Notice of Deposition that relate to what you're  
6 asking about.

7 MR. WOOL: Okay.

8 BY MR. WOOL:

9 Q. Okay. Let me shift gears for a second. Turning to  
10 Page 13, let me ask you about this study of the  
11 Prolift+M with the 157 consecutive subjects. Now, let's  
12 see, did this study just deal with mesh placed in the  
13 anterior compartment of the vagina?

14 A. No, this is anterior, posterior, and total. I'm sorry,  
15 what I was looking for is what was the breakup, and in  
16 the paper there is a breakup of how many were anterior,  
17 how many were posterior, and how many were anterior and  
18 posterior, called total.

19 Q. Okay. And, sorry, to go back just very quickly, the  
20 unpublished study that we were speaking about before,  
21 was that exclusively anterior?

22 A. No, this was anterior, posterior, and total.

23 Q. So both studies are total?

24 A. Yes.

1 Q. So just a couple questions about the numbers. You  
2 say -- and this is the second paragraph down on Page 13,  
3 that you started with 157 consecutive subjects.

4 A. Uh-huh.

5 Q. And then we go down to the second to last paragraph and  
6 we're down to 122 subjects.

7 A. So cystoscopy was performed in all eligible 122  
8 patients. What that means is the patients who had a  
9 back wall repair, just a posterior vaginal wall repair  
10 with mesh, they did not need a cystoscopy, so you do not  
11 need to do cystoscopy. I did cystoscopy anybody who had  
12 an anterior wall repair or an anterior and posterior  
13 wall repair.

14 Q. Okay. And then, similarly, another question about the  
15 numbers, if you flip over to Page 15, the middle  
16 paragraph, you note that de novo dyspareunia was noted  
17 in 3 of the 50 subjects.

18 A. Yes.

19 Q. So how did we get down to 50?

20 A. So it depends upon how many patients were sexually  
21 active. So of all these patients who were in the study,  
22 50 patients were sexually active at that time.

23 Q. So 50 out of the 157?

24 A. Yes, were sexually active.

1 Q. Is that correct?

2 A. Yes.

3 Q. And one more question.

4 A. So can I -- if you actually look at the paper, we have  
5 broken this down into a table which shows how many  
6 people were sexually active before, how many were not  
7 sexually active. We then looked at patients who are  
8 sexually active before, how did they do after the  
9 procedure. How many continued to be sexually active.  
10 How many became sexually inactive. Then we further  
11 looked at those afterwards who were sexually active, how  
12 many had pain, how many did not have pain.

13 On the other side, women who were not sexually  
14 active, we looked at how many of those women who were  
15 not sexually active before surgery became sexually  
16 active after surgery, and if so, how many of those women  
17 had no pain and how many had pain.

18 Q. So the 50 subject number on Page 14 includes women who  
19 were both sexually active before and after the --

20 A. It's after.

21 Q. Oh, it's only after?

22 A. Yeah, de novo dyspareunia.

23 Q. Okay, sorry, my apologies. Could we take a quick break.

24 (A recess was taken from 12:03 p.m.



1 to 12:28 p.m.)

2 BY MR. WOOL:

3 Q. Doctor, right before we took a break we were discussing  
4 your 2013 study on the Prolift+M.

5 A. Yes.

6 Q. Do you recall that?

7 A. Yes.

8 Q. So I just have a couple more questions regarding that  
9 study. Okay. So you -- and I'm on Page 13 of your  
10 expert report. In the second to last paragraph you note  
11 that there were no surgical complications beyond Dindo  
12 scale grade. So what is Dindo scale grade?

13 A. So the Dindo is a grading scale that was devised for any  
14 complications that happened. So 1 is a minor  
15 complication that does not need any intervention. Then  
16 2 is if it needs an intervention in the office. 3 is if  
17 it needs an intervention in the hospital setting. And 4  
18 is a major intervention. And I believe 5 is death. I  
19 don't exactly know, but that's what it is, it's based  
20 upon that, it looks at different aspects. So in this  
21 case as there were no visceral injuries, you know, so it  
22 was scale grade A may have been, I don't know --

23 Q. So if there were no complications on the scale at all, I  
24 believe 1 you described as a fairly minor complication,

1 so there were effectively no complications?

2 A. Correct.

3 Q. So that's a pretty impressive result, I assume?

4 A. Well, you know, it is if centers that have done this, I  
5 mean if you look at medical literature, also, there is a  
6 paper that was published from the Northwestern part of  
7 France, a person by the name Michelle Croissan, and the  
8 paper's name is by Laurant de Landsheere d-e  
9 L-a-n-d-s-h-e-e-r-e, and what he -- in his paper they  
10 had 521 patients that they followed up, and these were  
11 at least about two to three years out, and their risk of  
12 complication on bladder injury was .1 percent, bowel  
13 injury was like .2 percent, and their mesh exposure was  
14 3 percent. So I think centers across the board that  
15 would do a lot of these cases, and most physicians who  
16 should be -- who are good at surgery usually have, you  
17 know, similar results with low risk of complications.

18 Q. Did -- and I'm not going to be able to pronounce the  
19 name -- the French study you described, was that a study  
20 of the Prolift+M?

21 A. It was Prolift.

22 Q. That was a Prolift study. Okay. And this is a question  
23 just in regards to the studies that you have conducted  
24 yourself, or strike that. Let me just go back to this

1 study. You were the only surgeon performing on this  
2 population of patients in this study, correct?

3 A. This, yes.

4 Q. Okay. And if you go back to Page 12, the retrospective  
5 study of from 2005 to 2009 using the Prolift, that was  
6 exclusively you as well?

7 A. That's correct.

8 Q. As the surgeon? Okay. And so I guess generally all of  
9 your studies or the three that -- I believe the three  
10 that you cite, you were the only surgeon involved in  
11 those studies?

12 A. I do have residents who assist me, and they may have  
13 done a part of it, but under my guidance. So if it was  
14 my resident or fellow, it would be under my guidance, so  
15 I was actively involved in the --

16 Q. So it's fair to say that all the surgeries were either  
17 performed by you or under your direct supervision?

18 A. That is correct.

19 Q. Okay. All right. So I'm shifting gears just a little  
20 bit. Now, are you offering an opinion on laser cut  
21 versus a mechanically cut mesh at all?

22 A. From the engineering standpoint, no.

23 Q. From any other standpoint?

24 A. I can tell you from the success standpoint, from the

1 clinical standpoint, yes.

2 MR. WALKER: Well, let me just interrupt. Are  
3 you -- what products are you referring to with that  
4 question, because all of the Prolift+Ms are all laser  
5 cut meshes.

6 MR. WOOL: Right. I guess just, you know, and  
7 I guess my question is just confined to is he planning  
8 on offering a general opinion as to the benefit of one  
9 over the other.

10 THE WITNESS: And I apologize, I am sorry, I  
11 keep forgetting I'm doing this report on Prolift and  
12 Prolift+M, because, of course, I'm a physician and I use  
13 slings all the time, and I'm very, very familiar with  
14 the TVT family, so when you mentioned that,  
15 automatically I'm thinking about the TVT group of  
16 family.

17 BY MR. WOOL:

18 Q. Right. So just for the treatment of pelvic organ  
19 prolapse.

20 A. Yes.

21 Q. Do you have an opinion generally on laser cut mesh  
22 versus mechanically cut mesh that you plan on offering  
23 for this litigation?

24 A. I don't think I've used -- I don't even know if Exair or

1 Elevate is a mechanically cut mesh, I'm not sure, from  
2 this litigation Prolift and Prolift+M, they're not -- it  
3 doesn't arise.

4 Q. Okay. So you are offering a general opinion on  
5 Ethicon's warnings; is that correct?

6 A. Yes.

7 Q. For both the Prolift and the Prolift+M?

8 A. Correct.

9 Q. Okay. And what is your general opinion, let's start  
10 with the Prolift, on the warning for the Prolift?

11 A. Can you specify, please.

12 Q. Sure. I guess is your opinion that the warnings for the  
13 Prolift kit are adequate?

14 A. Yes.

15 Q. And is your opinion that they are safe and effective or,  
16 sorry, strike that. Let's see, and for the Prolift+M,  
17 the same question.

18 A. Yes, adequate, the IFU.

19 Q. Okay. And let's see, and what is the basis for that  
20 opinion?

21 A. I have reviewed the -- if you're talking about  
22 information for use, I have reviewed the information for  
23 use and I looked at it, and I find that it is more than  
24 adequate.

1 Q. Okay. Bear with me one second. I'm going to hand you  
2 what we'll mark as 6 and 7, so this is the IFU for the  
3 Prolift, and this is the IFU for the Prolift+M.

4 KHANDWALA DEPOSITION EXHIBIT NUMBER 6,  
5 GYNECARE PROLIFT  
6 WAS MARKED BY THE REPORTER  
7 FOR IDENTIFICATION

8 - - - - -  
9 KHANDWALA DEPOSITION EXHIBIT NUMBER 7,  
10 GYNECARE PROLIFT+M  
11 WAS MARKED BY THE REPORTER  
12 FOR IDENTIFICATION

13 THE WITNESS: So blend the Prolift and  
14 Prolift+M?

15 MR. WALKER: Well, just wait. He'll probably  
16 ask questions about each separately.

17 BY MR. WOOL:

18 Q. Okay. So looking at the IFU for the Prolift, are you  
19 familiar with this document?

20 A. Yes.

21 Q. And you've reviewed it before?

22 A. Yes.

23 Q. Okay. Now, does the document, does it warn that the  
24 surgery should only be performed by a experienced

1 physician or an experienced surgeon?

2 MR. WALKER: Object to form.

3 THE WITNESS: It basically, I don't think we  
4 need to see that. I mean when we look at an IFU from  
5 the surgeon and physician standpoint, we look at  
6 something that as a guidance. It's a surgeon's ability  
7 and credentials are not determined by the company. It  
8 is by the American College of OB-GYN or American Urology  
9 Association, and now the American Urogynecologist  
10 Society, and privileges at the hospital, that is what  
11 credentials a surgeon to use or not. So any surgeon who  
12 is credentialed to do these procedures is an experienced  
13 surgeon, you know, because that's what he, that person  
14 gets credentialed to do. So if they are credentialed,  
15 they can do the procedure, and it's not up to the  
16 company to state that, so I would not be looking at that  
17 information in an IFU, anyway.

18 BY MR. WOOL:

19 Q. Okay. And that statement is equally applicable to the  
20 IFU for the Prolift+M?

21 A. That's correct.

22 Q. Okay. And so you mentioned that -- so tell me about the  
23 credentialing process for surgeons. Just how does it  
24 work? How does one get credentialed I guess is the

1 question?

2 MR. WALKER: Are you talking about in general  
3 or at his specific hospital?

4 MR. WOOL: Let's talk about in general first.

5 THE WITNESS: So depending upon subspecialty,  
6 so let's say in my case obstetrics and gynecology, so  
7 first of all I have to go through a residency. Once I  
8 finish the residency, then I sit for a board  
9 examination, which is a written board examination and an  
10 oral board examination. And then I get -- I am  
11 conferred the degree of the fellow of the American  
12 College of OB-GYN. And once I have that credential, so  
13 then I'm M.D. FACOG, once I become that, I apply at --  
14 for hospital for that particular specific hospital  
15 privileges, and it could be right from vaginal  
16 deliveries to Cesarean sections to hysterectomy. And  
17 then the hospital has a board, and the medical  
18 professionals who sit on the board, they look at what  
19 are the privileges a doctor is requesting and is it  
20 concordant with their practice and their field.

21 So if I'm applying for amputation privileges,  
22 I'm a physician, I can potentially do amputation, but  
23 that is what -- hospital would not give me privileges  
24 because I am a gynecologist. So if I'm applying for



1           privileges for vaginal surgery, then they have certain  
2           requirements.

3                       Then it goes a step ahead where if they're  
4           looking at certain things like robotic surgery, and it's  
5           part of -- it's hysterectomy but done through the robot,  
6           and if that is so, then there may be certain specific  
7           regulations or requirements for each credentialing  
8           committee which is very specific to each hospital. So,  
9           for example, my hospital may say that if you want to do  
10          robotic laparoscopic hysterectomy, you need to be  
11          proctored for 10 cases. In Denver they may say you need  
12          to be proctored for 15 cases. So that's a different  
13          thing.

14                     Same thing with vaginal mesh, say for vaginal  
15          mesh you need to be proctored for these many cases, so  
16          they may be -- the credentialing requirements vary from  
17          hospital to hospital, from state to state, and that is  
18          very subjective to each individual place.

19       BY MR. WOOL:

20       Q.    Okay. So let's just focus on, I guess, the hospitals  
21           where you perform prolapse surgery using mesh. What is  
22           the credentialing process there? Is it essentially what  
23           you just described?

24       A.    So initially, I mean, well, when I applied for the

1           privileges way, way back, you know, at that time I was  
2           already a fellowship -- had done a fellowship and a  
3           subspecialty in urogynecology it used to be called then,  
4           and so that itself gave me the additional, you know,  
5           education and certification to apply for certain things  
6           such as vaginal mesh surgery. Of course, I had gone to  
7           a cadaver course, I had been proctored there, and then  
8           with the overall knowledge that you possess as a  
9           gynecologist and having done these surgeries, you know,  
10          they allow you to do this procedure so you get  
11          credentialed to do it. So that's how I got credentialed  
12          to perform these cases.

13       Q.    Okay. And I believe you've already answered this  
14           question in some way, but to be clear, kind of across  
15           the country there isn't a uniform system for  
16           credentialing physicians to perform either surgery with  
17           the Prolift or the Prolift+M, is there?

18       A.    At this moment, of course, the products don't exist, but  
19           when they were there, yeah, it was -- no, it was very  
20           individualized how every hospital and the hospital  
21           committee behaved.

22       Q.    Okay. And would a physician ever be able to legally  
23           perform pelvic organ prolapse surgery at the time with  
24           either the Prolift or the Prolift+M if they were not

1           credentialed?

2                       MR. WALKER: Object to form.

3                       THE WITNESS: I don't think they would be  
4           allowed in hospitals, and if they're practicing in a  
5           hospital, if they are not credentialed to do, but I  
6           don't know if they're specific to that, so, for example,  
7           they -- the credentialing committee does not go very  
8           specific to a particular mesh device, so it won't say  
9           you can do Prolift but you cannot do Prolift+M or you  
10          can do Elevate but you cannot do Prolift. What they may  
11          credential to you is that you can do vaginal surgery for  
12          prolapse with or without augmentation, a very general  
13          term, and then it is up to then different specific  
14          things that, you know, what may be required that a  
15          physician may have to do like go for a cadaver course,  
16          and I think ultimately because the physicians will  
17          champion this, so if I want to do something for my  
18          patient, I'm not just going to put something in my  
19          patient that I don't know how to do. I may be  
20          credential at a hospital to do vaginal augmentation  
21          surgery, but tomorrow if there's a new technique that  
22          comes out, I will put in the due diligence to learn the  
23          new technique, the process, how it works, what is the  
24          science behind it, what is quoted in literature, and

1           that's the main thing we fall back on, what is the  
2           literature? What has been published? What is out  
3           there? What is the information? So most of my  
4           colleagues including myself count on in my case, yeah,  
5           maybe it's a unique situation that I do have clinical  
6           studies of my own, but that's not all I count on. I  
7           count on my studies and what has also been published in  
8           literature what I discuss with my colleagues at  
9           conferences, in the summit meetings that I mentioned,  
10          that plays a tremendous role in the overall formation of  
11          should I do this or not.

12                       Once that has been achieved and once I've  
13          realized that, yeah, this is a product that I have  
14          talked to my colleagues, I have read the literature,  
15          I've discussed with others, and it makes sense, then I  
16          would be able to use it, you know, so it's impossible  
17          for a credentialing committee to be specific and say you  
18          can only use this, not that. So they may just say you  
19          can use a robot but not for which type of operation.  
20          Can I take the ovary out? Can I take the tube out? Can  
21          I just take half of the uterus, full uterus? Well,  
22          that's left ultimately to the physician.

23       BY MR. WOOL:

24       Q.     Okay. And so the credentialing process for pelvic organ

1 prolapse surgery would essentially be uniform across --  
2 not across the board, sorry, strike that. A  
3 credentialing process would allow you to perform surgery  
4 for prolapse generally?

5 A. Yes.

6 Q. Okay. And it wouldn't say you can't use this device or  
7 you can't use that device?

8 MR. WALKER: Object to form.

9 THE WITNESS: They cannot -- usually when a  
10 credentialing group meets, it's like a general group,  
11 it's a primary care physician, there may be some other  
12 there's on it, so they are not even well versed in that  
13 special, each mesh design, so they don't look at it that  
14 this is one you can use, same thing when a new  
15 instrument comes out through the robot, when the  
16 morcellator came out, they can't say, oh, you cannot use  
17 it.

18 So then they go by you are a gynecologist, you  
19 practice in the vagina, this is what your specialty is.  
20 What are you talking about? What privileges are you  
21 requesting? And they look at and why? So they get  
22 documentation and then they understand that that makes  
23 sense.

24 The knowledge base that I possess is much more

1           than what the credentialing committee has, but then they  
2           set up some guidelines that we essentially follow, but  
3           it's more guidelines that are usually general but not  
4           specific to one product.

5       BY MR. WOOL:

6       Q.   And so you had said before, and I just want to make sure  
7           that I have this correct, that if a physician is  
8           credentialed, that they're sufficiently experienced to  
9           use the device, whether it be the Prolift or the  
10          Prolift+M, correct?

11      A.   No, so the credentialing process, as I mentioned, it's  
12          more of a process that involves that can this person use  
13          a vaginal augmentation. So suppose if I apply and say I  
14          want to do vaginal augmentation surgery, and now there  
15          is a new mesh on the market, you know, and that I want  
16          to use, they will not object. The credentialing  
17          committee doesn't have to say, okay, give me information  
18          about this particular mesh. Now, that's up to me as an  
19          individual to learn about what this mesh is and why am I  
20          using it.

21      Q.   Okay. And as we discussed in the Instructions For Use,  
22          there isn't anything in there about restricting use to  
23          experienced physicians?

24                           MR. WALKER: Object to form.

1                   THE WITNESS: That doesn't have to be, because  
2                   it's up to the physicians, and it's not -- the company  
3                   cannot restrict or allow, it's not up to the company to  
4                   do that, it's up to the physicians, so it's up to us and  
5                   our societies to manage that, you know, and to police  
6                   that, not -- a company cannot say you cannot use it.  
7                   Once a physician is a credentialed gynecologist, he or  
8                   she can use these products, now it's not up to the  
9                   company to control that.

10       BY MR. WOOL:

11       Q.     Okay.

12       A.     So, in other words, if we are saying, okay, you can't  
13               use it because you only have done five, it's not for the  
14               company to decide. It is for the credentialing  
15               committee of the hospital or the Department of  
16               Gynecology or usually the physician themselves.

17       Q.     Okay. So if you turn to Page 18 of your expert report,  
18               I'd like to direct your attention to the line at the top  
19               of the page where you say that vaginal prolapse surgery  
20               is clearly a complex surgery and should be performed  
21               exclusively by surgeons who are experienced in this.  
22               You read that?

23       A.     Yes.

24       Q.     So what is the criteria for experienced surgeons?

1       A.     So the main thing is understanding the anatomy, and  
2             that's very important, so this is -- the word is I have  
3             put vaginal mesh because I'm talking about mesh, but  
4             this mainly alludes to vagina prolapse surgery. It's  
5             different. You know, when you go from above, the  
6             anatomy looks very different, looks very normal. When  
7             you're going from the vagina, it looks almost opposite,  
8             you know, you're going from below up, so it is very  
9             complex, plus you're working in a tunnel, and it's very  
10            hard to go from a tunnel into these deeper spaces.  
11            Then, again, you are doing a lot with palpation, it's  
12            almost like Braille, you're palpating these things,  
13            you're feeling it rather than actually looking and  
14            seeing it. So there's a lot of experience that a  
15            surgeon has to gain over time to understand this. So  
16            the main -- if they understand anatomy, then they  
17            understand the breakdown of anatomy that happens with  
18            prolapse and, then they have to understand the  
19            alterations of anatomy that could be specific to that  
20            particular person. Could that change how the blood  
21            vessels are, you know, where things are with the uterus  
22            coming, for example, when the uterus is inside, the  
23            tubes that drain both kidneys called ureters, they are  
24            proper. When the uterus is completely outside, the



1 ureters can get kinked, and they are very, very low. In  
2 fact, with complete prolapse, the ureters are outside  
3 the body, so that is something that a surgeon needs to  
4 know, that anatomy changes as these pathologies happen,  
5 so that's very important.

6 So the main focus, it's complex because they  
7 absolutely need to know the anatomy, the breakdown of  
8 anatomy, the pathophysiology, and the surgical  
9 variations through a tunnel. And that is -- it's often  
10 labeled as what we call no incision natural orifice  
11 surgery because you're going from the natural orifice.  
12 However, it's complex, because you're going from such a  
13 small opening, and you're doing such a large operation  
14 through a small opening which was previously done by  
15 cutting the belly open.

16 Q. So how does a surgeon gain this understanding of  
17 anatomy?

18 A. So they -- first of all, it's in medical school  
19 understanding what anatomy is, then going through  
20 residency where they learn how to assist in these  
21 procedures, they learn how to do these procedures, and  
22 that they go out and practice. So not everybody has to  
23 be someone like me who's fellowship trained. You know,  
24 most of the physicians who are using the mesh are normal

1 OB-GYN physicians and urologists who are very good  
2 surgeons.

3 So how do you become a good surgeon, if not by  
4 doing a fellowship, you do not have to do a fellowship.  
5 You can be out there, you understand this, and you put  
6 in due diligence, take time, understand the problem,  
7 figure it out how a patient is behaving to this, follow  
8 these patients over time, and see how you can improvise.

9 Q. So -- sorry.

10 A. So it is this entire process, including learning from  
11 your peers, going to conferences, being involved in  
12 these societies, and then reading literature, you know,  
13 where they tell you about how to -- like what are the  
14 monogram on Prolift is a perfect example. You know,  
15 when the IFU came out it was just some information, but  
16 the monogram when it came out, that is written by  
17 physicians for physicians to understand these nuances.  
18 So we have gone through these. Now you have these  
19 experienced doctors who are doing a lot of cases, they  
20 have learned this. How do you now explain these pearls  
21 to everybody? So that's why this monogram was put up  
22 together and that goes over these pearls, different  
23 things, you know, what can be done, what -- how you do  
24 this, what have been the modifications since Fatton, you

1 know, described this with the Prolift beginning and how  
2 we have changed.

3 MR. WALKER: Just for clarification, when  
4 you're talking about the monograph, you're talking about  
5 the Prolift surgeon monograph?

6 THE WITNESS: Yes, the Prolift surgeon  
7 monograph.

8 BY MR. WOOL:

9 Q. And you mentioned what I think you described as a normal  
10 OB-GYN. According to your definition, would somebody  
11 like that meet your definition of an experience?

12 A. Absolutely. The experienced is more about someone who  
13 has gone through these courses, the steps. One is  
14 understanding the anatomy, and understanding what has  
15 broken down, then understanding what happens with  
16 surgery, reading the literature, making awareness --  
17 becoming aware of what the society that deals with  
18 pelvic floor dysfunction is talking about, going to  
19 conferences, and then practicing on their patients and  
20 seeing what happens over time with their own patients  
21 and own interaction.

22 The key is what does that particular person  
23 note in his or her experience? And that's even what the  
24 FDA said, that it's so different, and I cannot globalize

1           it because in one surgeon's hands the success may be  
2           different, in someone else it's different, so that's why  
3           it's important for each surgeon to understand what is my  
4           story and how am I doing with my cases. So if someone  
5           has done this, it doesn't matter whether he is board  
6           subspecialized in urogynecology or a generalist OB-GYN  
7           or a generalist urologist, it doesn't matter. That  
8           person, I'll call him or her experience.

9       Q.    So you mentioned part of gaining this experience was  
10           practicing on your patients. So has somebody who has  
11           not performed any of these procedures before on their  
12           patients, can that person be experienced under your  
13           definition?

14    A.    Well, eventually someone has to start somewhere, so,  
15           first of all, when you go in, you go to cadaver course,  
16           and then -- so typically the way it unfolds --

17    Q.    Let -- I guess, I think my question's a little bit  
18           simpler than that. It's simply can somebody who has not  
19           practiced any of these procedures on their patients be  
20           considered or do you consider that person to be  
21           experienced?

22                           MR. WALKER: Object to form.

23                           THE WITNESS: If a person has never done  
24           vaginal prolapse surgery, no, they cannot be

1 experienced, because someone has to have done vaginal  
2 prolapse surgery before they get into using the -- doing  
3 any of these -- of prolapse surgery for that matter.

4 BY MR. WOOL:

5 Q. Okay. And to clarify your opinion on mesh prolapse  
6 surgery as it relates to both the Prolift and Prolift+M,  
7 it's your opinion both in your report and today that it  
8 should be exclusively performed by surgeons who are  
9 experienced?

10 A. Yes. But, again, as I defined experienced surgeons. So  
11 my definition of experienced surgeon still stands. It's  
12 an experienced surgeon, and that's key. It should not  
13 be someone who just does one case and never does  
14 anything about it at all. It should be someone who is  
15 following the literature, under the medical literature,  
16 reads what's out there, goes to the societies, goes to  
17 the conferences, and this is where if we want to be  
18 involved -- if they want to be involved in this, they  
19 have to become experienced surgeons to do this. So that  
20 is what I personally feel in my opinion the main thing  
21 that mitigates the risk of complications is my  
22 definition of an experienced surgeon. So I would say, I  
23 should take the word out surgeon, I would say  
24 experienced physician or experienced clinician. This is

1 not just someone who goes as a technician in the  
2 operating room and operates. This is someone who puts  
3 in the extra effort to understanding what is the  
4 information? What is out there? What is the  
5 literature? What are people talking about? It's not  
6 just, you know, me doing one case and just doing the  
7 technical repair.

8 MR. WALKER: And I object to the form of the  
9 previous question. I just didn't want to interrupt him.

10 BY MR. WOOL:

11 Q. Okay. And so I guess my question would be if we are  
12 talking about an inexperienced physician or surgeon --  
13 strike that. So do you have any opinion on the data for  
14 the Prolift and the Prolift+M as they relate to  
15 inexperienced surgeons?

16 MR. WALKER: Object to form.

17 THE WITNESS: As I told you, I don't think  
18 that this should be something which -- this should be  
19 done by experienced surgeons, and I think people who  
20 have done is the people I know and I've read the  
21 literature, these are people who are experienced  
22 surgeons, so from that definition I talk about, so I  
23 don't think -- I don't know anything like that, I'm  
24 sorry.

1 BY MR. WOOL:

2 Q. So when you -- when a patient presents to you with  
3 pelvic organ prolapse, I guess how do you assess the  
4 risk benefit profile of that patient?

5 A. So when a patient comes in and she says -- and then the  
6 key thing as we talked earlier on, most important thing  
7 for me is what is she coming with. So those validated  
8 questionnaires will explain to me and summarize as to  
9 this is my problem. So let's assume she has a complaint  
10 of a vaginal bulge, and she's really bothered by the  
11 bulge. Then what are the other aspects which are  
12 important? You know, what are the associated factors  
13 such as her age, is she menopausal, is she on estrogen  
14 what is her weight, is she a smoker, has she had prior  
15 surgery, does she have a uterus, does she want to keep  
16 her uterus, does she have any other abnormality with the  
17 uterus, is she bleeding heavy or something else going  
18 on, so there are so many factors that play a role in  
19 deciding what to do.

20 Then we do certain tests to see whether she  
21 has -- she is emptying her bladder well, does she have  
22 occult stress incontinence, we look for that, is she  
23 complaining of fecal incontinence, we assess that, we  
24 look at the entire pelvic floor.

1                   Once you've done all that, and then we sit  
2                   down and talk to the patient and say, okay, what is --  
3                   this is the information. So the information that we  
4                   discuss with the patient is giving her the evidence,  
5                   telling her what is the information that exists? Not  
6                   just only my information, that's also important to her,  
7                   but I give her overall information, so this is the  
8                   information in the medical literature.

9                   So let's say if I am proposing vaginal mesh  
10                  surgery to her, I would say this is information in the  
11                  medical literature, this is what has been documented,  
12                  this is also my experience, and this would be the  
13                  information for that. Then I would tell her the same  
14                  thing about pessary, this is the good with the pessary,  
15                  this is the bad thing about the pessary, and I make them  
16                  understand that, you know, if they have to analyze --  
17                  ultimately, my ultimate goal is to empower that woman,  
18                  that patient of mine, this lady sitting in front of me,  
19                  empower her with the knowledge in a colloquial language  
20                  that she understands exactly what she would want, not  
21                  what I am going to force and force her to undergo. So  
22                  once she's heard this, now she has clear information  
23                  that we've given her what we call nondirective  
24                  counseling, so without bias I give her the information.



1                   Once you've laid it, now she has the facts.  
2                   So I tell her forget about everything else, what I've  
3                   given you are the facts and here's the literature to  
4                   support. We give them the white paper of the FDA, we  
5                   give them the FDA up classification which recently came  
6                   out, we gave them our results, we give them what is out  
7                   there in a booklet that we give the patients, so they  
8                   have enough information, and I make them understand that  
9                   the ultimate decision is based upon what they want. I'm  
10                  there to guide them and direct them, but I am not going  
11                  to force them one way or the other.

12                  So even sometimes they ask me, so if it was  
13                  your wife or your mother, what would you do? I say it's  
14                  different, their body frame is different, you are  
15                  different. I'm going to go over your risk profile and  
16                  say what is your age, what is your BMI, are you  
17                  menopausal, are you a smoker? I look at all those  
18                  factors and come up with a risk strategy based upon that  
19                  and come up with what we call a balance scale, risks to  
20                  benefits. So which way does this tip? And then if it  
21                  tips in favor of benefits of doing vaginal mesh, that's  
22                  what we do. So based upon that. So it's a very  
23                  detailed counseling, which most of us agree, and if you  
24                  look at literature, also, most -- if even if the society

1 guideline statements, they'll tell you that it's  
2 important to discuss with your patient, explain to the  
3 patient what's going on. So this is not exclusively to  
4 what I do, this is what's done by my peers as we go to  
5 societies and we talk to my colleagues, they say the  
6 same thing, that's what they do extensively, and they  
7 discuss more with the patients and tell them.

8 Q. Do you believe that manufacturers of medical devices  
9 have a duty to warn physicians of adverse events?

10 MR. WALKER: Object to form.

11 THE WITNESS: It's up to the physicians, I  
12 mean if there is -- ultimately it's up to the physicians  
13 because we would know it, what's going on, because I  
14 would see in my practice if something was happening, but  
15 if there's something bad happening with a particular  
16 product, yes, they should inform the physicians.

17 BY MR. WOOL:

18 Q. Okay. Do they have a duty to provide proper  
19 Instructions For Use?

20 MR. WALKER: Object to form.

21 THE WITNESS: Instructions For Use are written  
22 for physicians and for -- if they are -- ultimately  
23 it's, you know, it's based upon my experience as a  
24 surgeon and what we discuss and what we find out, my

1 colleagues in discussions and the medical literature  
2 that exists on this particular item, so let's be  
3 specific, let's say for Prolift, so what is out there?  
4 What is literature? What do my colleagues say? What do  
5 we discuss in conferences? What is my own experience is  
6 what dictates more, you know, than the IFU.

7 I can tell you the IFU is a guide. I can  
8 almost guarantee you that nobody sits with the IFU in  
9 the OR and goes through it step by step. Maybe we read  
10 this once, maybe couple of times, and it's not something  
11 that we -- it's like we have to study it and memorize  
12 it.

13 BY MR. WOOL:

14 Q. So you're saying you don't think that Ethicon needs to  
15 provide, I guess, accurate and correct Instructions For  
16 Use?

17 MR. WALKER: Object to form.

18 THE WITNESS: It's -- what I would look at it  
19 from this -- let's be more specific, in looking at the  
20 IFU, this IFU is more than adequate when looking at the  
21 Prolift IFU, so there's no point, other than conjecture.

22 BY MR. WOOL:

23 Q. So if it -- strike that. Okay. Do you believe that  
24 medical device companies such as Ethicon have a duty to

1 provide contraindications for use?

2 MR. WALKER: Object to form.

3 THE WITNESS: They can state it. However, a  
4 lot of that information we would know as physicians, and  
5 a lot of that information we would get from our own  
6 colleagues and discussing with our colleagues and  
7 understand. I mean this is nothing that -- for example,  
8 the contraindications for a physician are quite obvious.  
9 We would know what is contraindicated. I think it's  
10 important that whether it is done for a vaginal prolapse  
11 surgery with native tissue repair or whether it is done  
12 for -- with an augmented procedure like mesh, not a  
13 whole lot changes. It's very obvious, you know, so  
14 nothing much -- maybe it says pregnancy and child  
15 bearing, but short of that, patient on anticoagulation,  
16 you know, she should not be on a blood thinner, well,  
17 that's obvious to a physician, that should be there,  
18 anyway. So I don't think that we would really look at  
19 every word and follow that; we know ourselves what  
20 should be there.

21 BY MR. WOOL:

22 Q. Okay.

23 MR. WALKER: David, let me just put on the  
24 record we've gone over the three hours, and you've got a

1 total of five for Prolift and Prolift+M, and Dr.  
2 Khandwala's report encompasses both into a single  
3 report, and you've asked questions about both up to this  
4 point in time, so I just want the record to reflect that  
5 we'll be doing a five-hour deposition that covers both  
6 products; is that --

7 MR. WOOL: Yes.

8 MR. WALKER: Are you in agreement with that?

9 MR. WOOL: Yes, that's my understanding, and  
10 we are in agreement about that.

11 BY MR. WOOL:

12 Q. Okay. So is it your opinion that Ethicon mesh, either  
13 the Prolift or Prolift+M, or let's just start with  
14 the -- scratch that, just the Prolift. Is it your  
15 opinion that the Prolift is appropriate for patients  
16 with prolapse, say, lower than stage 3, stage 1 or 2?

17 A. It is -- as I mentioned, it's all -- the Prolift is just  
18 a device, it's just a mesh, it's an augmentation  
19 procedure. So let's say a patient has stage 2 prolapse,  
20 and I open up the vagina and I find that there is  
21 nothing, there's no fascia at all, then absolutely I  
22 would use a mesh. So this is -- my ultimate goal, and  
23 that is same thing as goal of my colleagues, is that we  
24 want to give the patient the best shot at the first

1           time. The problem with recurrence is then you'll end up  
2           with more complications. So if it turns out I can do  
3           fascia repair, just like as we mentioned, with a Stage 2  
4           rectocele, if I did a fascia repair, there is good  
5           fascia there, there is evidence to show, as I mentioned  
6           in my report from Chris Maher, the 2011 Cochrane  
7           analysis, that the back wall repair can be -- has good  
8           results if done with native tissue. However, if I go  
9           with that intent, and I open up the vagina and I find  
10          that there is nothing there and it is a Stage 2  
11          prolapse, there's just nothing I can put together, then  
12          what am I going to do? Am I going to just put nothing  
13          to nothing? And I don't think that's ethical from any  
14          standpoint. Then I would fall back on my experience,  
15          the experience of my colleagues, and what we've read in  
16          the literature to say yes, it does help. You know, even  
17          just looking at a Stage 2 rectocele, it would help from  
18          that standpoint just as -- when I talk about medical --  
19          this is -- I'm not just talking about my results, I'm  
20          talking about results from the medical literature which  
21          talk about like the Withagen paper from Amsterdam, you  
22          know, which basically showed high success with placement  
23          of a mesh even for the posterior compartment.

24       Q.    So do you think that prolapse severity should be listed

1 as a contraindication at all?

2 MR. WALKER: Object to form.

3 THE WITNESS: Contraindication for what?

4 BY MR. WOOL:

5 Q. So the severity of the prolapse, should that be listed  
6 as a contraindication on the Instructions For Use?

7 MR. WALKER: Same objection.

8 THE WITNESS: I think it's not up to the  
9 company to state that. I think it's up to us as  
10 physicians, and when to use it and when not to use it.  
11 So I would think it would be opposite, as a physician I  
12 would say that the larger the prolapse, the weaker the  
13 inherent and native tissue, so I absolutely want to  
14 augment that, you know, if that were to be the case.  
15 But it's not -- I think it's ultimately the medical  
16 literature. You know, my clinical experience is going  
17 to dictate how I'm going to manage that patient, and  
18 it's very much individualized, that's the beauty of  
19 medicine, what I really enjoy about it, it is tailored  
20 to even individual. There cannot be a cookie cutter  
21 approach. There could be one patient or the other may  
22 have similar stories, similar age, similar medical  
23 background, but a totally different outcome.

24

1 BY MR. WOOL:

2 Q. Okay. So the when a patient presents to you and you're  
3 thinking about providing them with surgery for pelvic  
4 organ prolapse using mesh, when you counsel them, what  
5 are the possible complications that you counsel them  
6 about?

7 A. The main complications, it doesn't really change when I  
8 talk to them about mesh or nonmesh. Most complications  
9 are the same. So there is nothing different I would  
10 counsel. So my main counseling, whenever I do surgery  
11 of any type of surgery, my counseling is bleeding,  
12 infection, and injury, so these are the three basic  
13 things that cover a lot. But then we speak about, you  
14 know, there could be narrowing, maybe some scar tissue  
15 in the vagina while you're doing the suturing, and  
16 especially when using her own native tissue, when you're  
17 trying to put things together, the big concern is we try  
18 to avoid and trim the vagina.

19 There is a high incidence of dyspareunia with  
20 native tissue repair, also, so I cannot say that that  
21 won't happened. So I tell my patients that --  
22 essentially when I look at mesh versus nonmesh, there is  
23 no specific complication I would tell them. It is  
24 different.



1 Q. So there are no complications that you would advise  
2 patients on that are different from mesh versus native  
3 tissue repairs?

4 MR. WALKER: Objection.

5 THE WITNESS: Correct. So when looking at --  
6 if I am repairing prolapsed native tissue repair versus  
7 mesh, there is no complication that is different between  
8 the two from -- as a complication, so complication due  
9 to the mesh, which is exclusive to the mesh, there is  
10 none, according to me.

11 BY MR. WOOL:

12 Q. Will you list the complications, and I know you did that  
13 a little bit, but I think there was some overlap, so  
14 just for clarity, all of the complications that you  
15 would counsel a patient on strictly for mesh.

16 MR. WALKER: Object to form.

17 THE WITNESS: I would counsel a patient for  
18 vaginal surgery, as I mentioned, whether I am doing  
19 native tissue repair or mesh, it doesn't change, but the  
20 complications I tell my patients are, one is bleeding;  
21 second is bleeding associated hematoma; third is injury  
22 to neighboring organs; fourth is infection; fifth is  
23 pelvic pain; sixth incontinence, and there are some  
24 others. So basically I don't -- I tell them about --

1 the most important thing, what is different from a paper  
2 like this, an IFU anywhere else as compared to what we  
3 do is we put things in perspective.

4 If you take a vitamin, also look at the PDR,  
5 and you look at the complications and the side effects  
6 of a vitamin, you won't even take a vitamin. Let me  
7 give an illustrative example. Ciprofloxacin or Cipro is  
8 one of the most potent antibiotic for a bladder  
9 infection. So if you have a bladder infection and you  
10 go to your doctor and he gives you Ciprofloxacin, he'll  
11 say, you know what, this is great, it's one of the best  
12 antibiotics. However, the red box warning on the Cipro  
13 is it can cause your tendon rupture, so Achilles tendon  
14 can rupture, and then you are walking with a splint on a  
15 walker for like six -- three to six months. If you knew  
16 that and then say, oh, my God, I don't want to take this  
17 antibiotic, that's when you go with the risk benefits.  
18 What we explain to our patients is the benefit outweighs  
19 the risk because we put things in perspective. What is  
20 the likelihood. So it's not just about enumerating all  
21 these complications. It's explaining to them the  
22 likelihood of this happening, putting things in  
23 perspective that what -- the likelihood of this chair  
24 breaking down exists, but what is -- the possibility

1 exists; what is the likelihood of it happening? That's  
2 how I explain to my patients. So it's not only  
3 enumerating all these complications and throwing at her  
4 and saying this is the laundry list of all your  
5 complications and here you go. It's -- what we do is we  
6 put it in perspective.

7 BY MR. WOOL:

8 Q. Okay. And is that answer equally applicable to both the  
9 Prolift and Prolift+M?

10 A. Yes.

11 Q. Okay. And so let's try to get into some of the  
12 specifics of each. So for your opinion that the Prolift  
13 is safe and effective, I guess looking at the data in  
14 your expert report, what studies specific to the Prolift  
15 form the basis of your opinions?

16 A. The main -- right from the start, right from Fatton,  
17 F-a-t-t-o-n, the French, the TVM group, you know, to the  
18 different publications from -- you can quote Caquant,  
19 C-a-q-u-a-n-t to Landsheere, L-a-n-d-s-h-e-e-r-e, to the  
20 group from Amsterdam Withagen, W-i-t-h-a-g-e-n, and  
21 Vierhout, V-i-e-r-h-o-u-t and Milani, M-i-l-a-n-i. So  
22 those were the -- and the main group was a Nordic group  
23 studies, which are Alterman, Daniel Alterman, fantastic  
24 paper, it was randomized clinical trial which was

1 published in the New England Journal of Medicine, one of  
2 the best studies done on the use of Prolift.

3 Q. So all those studies that you enumerated are exclusive  
4 to Prolift?

5 A. Well, some of these guys have also done studies with  
6 Prolift+M, but they have done predominantly studies on  
7 the Prolift.

8 Q. So I guess I'm asking you to specify the studies that  
9 you believe show the safety and effectiveness of the  
10 Prolift.

11 A. Yes, these are the studies, what I quoted were -- most  
12 of them were Prolift.

13 Q. And the same question for the Prolift+M, what studies do  
14 you believe prove the safety and effectiveness?

15 A. So I don't know if I added in, but I should add my  
16 paper, too, for the Prolift and my own clinical  
17 experience, which is also important. And the second  
18 from the Prolift+M, again, one is the Milani paper which  
19 was published, and then it was followed by the group  
20 Withagen and our paper and the Lusante had a paper that  
21 was published with Van Raalte, R-a-a-l-t-e. So these  
22 are the different papers that are published and, of  
23 course, that's what's published, but then, again,  
24 discussing at meetings when we talk, when we used to go

1 to the summit meetings, the Ethicon summit meetings when  
2 we met my peers and sit down at round tables and discuss  
3 and say, hey, how are things going, what did you find,  
4 and, you know, that is something that we literally fed  
5 off, you know, we enjoyed going to the summit meeting.  
6 It was not because it was a great place that we were  
7 going to sponsored by Ethicon, but it was more to get  
8 involved and brainstorm. And that was the most  
9 important experience, the going and networking is where  
10 you really learn a lot and, of course, reading the  
11 medical literature.

12 Q. Tell me about these summit meetings. How often would  
13 they occur?

14 A. They were happening once a year, so Ethicon would have  
15 the summit meeting of physicians who are doing this, and  
16 I don't know what criteria they would use, but we would  
17 all get together, and then we would have some general  
18 session talks, and they would say, okay, what is the  
19 literature, what is going on? And I had, for example,  
20 presented a paper on our Prolift+M data. Then we had  
21 breakout sessions, and in breakout sessions it would be  
22 more of a, you know, one of the persons starting a  
23 discussion. So I had, for example, once led a  
24 discussion on TVT Secure, and I stood up, and I said,

1           okay, guys, what do you think, what is going on? So  
2           it's more of a -- it is not a unilateral talk and a  
3           discourse. It was a partnership, it was a  
4           communication, it was a conversation. So we then  
5           understood what was going on and then figured out, and  
6           the company had people sitting in the back taking notes  
7           as to what are the issues, what are these doctors  
8           talking about, what are the goods, what are the bads, so  
9           it was a great thing for us as physicians.

10       Q.   Did Ethicon pay for the physicians to attend the summit?

11       A.   Yes.

12       Q.   Did they pay for the lodging of the physicians at the  
13           summit?

14       A.   Yes.

15       Q.   Was there any other financial benefit conferred by  
16           Ethicon on the physicians other than travel and lodging?

17       A.   No.

18       Q.   Okay. Now, are you offering a general opinion on  
19           Ethicon's training of physicians?

20       A.   Ethicon doesn't -- I mean I don't know -- are you  
21           talking about cadaver -- what do you mean by that?

22       Q.   Well, we can talk about that in a second, but I guess  
23           are you offering a general opinion on any of the  
24           training that Ethicon provides to physicians regarding

1 the Prolift or the Prolift+M?

2 A. See, I don't think that is -- to me, the main training  
3 comes from us, we teach our peers, so it is how do we  
4 proctor them, how do we teach them at these courses and  
5 when they come to learn from us. Plus, the training is  
6 done individually. I want to go, I want to do  
7 something, I'm not going to count on the company to tell  
8 me, hey, do this or go here. I want to figure it out  
9 for myself. So I think it's more individual, more  
10 inherent to our group, and that's what physicians do,  
11 you know, we sort of link up and talk about these  
12 things.

13 Q. So it's fair to say that you're not providing an opinion  
14 one way or the other on --

15 A. Yes.

16 Q. Now, are you offering an opinion on pelvic pain  
17 associated with transvaginal mesh repair?

18 A. Yes. Let me say an opinion, whether it is associated or  
19 not is what the opinion is. My opinion -- the premise  
20 is pelvic pain is not because of mesh, that's my  
21 premise. Yes, on that I'm offering an opinion.

22 Q. Okay. And I know you just stated that, but, once again,  
23 your opinion is that -- and I don't want to characterize  
24 this inaccurately, but that pelvic pain is not

1 associated with mesh?

2 A. Correct. And this has also been published by a paper by  
3 Niemenen I mentioned -- I'm sorry, Nguyen, N-g-u-y-e-n  
4 and Brunett, and they published a paper where they use a  
5 mesh versus non-mesh, and they found that in patients  
6 that had a mesh there was significant improvement in  
7 pelvic pain as opposed to women who did not have a mesh  
8 and had native tissue repair. This is a randomized  
9 clinical trial.

10 Q. Are there any other studies that help form the basis  
11 of that opinion?

12 A. Yes, there's the Niemenen paper I just mentioned. So,  
13 now, that paper basically is a three-year follow-up, and  
14 what they found was that the incidence of dyspareunia  
15 was lesser in patients who had the mesh as opposed to  
16 not having the mesh. And I think there's one other  
17 paper which basically shows similar results, I think  
18 Sivasaglu, S-i-v-a-s-i-a-g-l-u.

19 Q. Okay. And do you have any opinion on chronic pain being  
20 associated with mesh?

21 A. Mesh does not cause chronic pain; that's my opinion.

22 Q. And is that based on the same data that you just  
23 enumerated?

24 A. Yes, and there is some more information, also, pelvic



1 pain, and that -- and my own -- and so that's -- the  
2 literature, I think it's -- I can't exactly remember  
3 what the other article I was thinking about, but it's  
4 also based upon my clinical findings, so we did not see  
5 an increase in incidence of pelvic pain.

6 Q. Okay. Now, the studies that you described a moment  
7 ago --

8 MR. WALKER: Can I just ask you in terms of  
9 those questions about whether or not mesh was associated  
10 with pain or chronic pain, are you -- were you asking  
11 that in reference to both Prolift and Prolift+M?

12 MR. WOOL: Yes, and I'll clarify that.

13 And your opinion is the same for the Prolift?

14 THE WITNESS: Yes.

15 BY MR. WOOL:

16 Q. And the same for Prolift+M?

17 A. Yes, that it does not cause pelvic pain nor chronic  
18 pelvic pain.

19 Q. So for the studies that help form the basis of that  
20 opinion, do the studies limit the results to experienced  
21 physicians?

22 A. I don't --

23 MR. WALKER: Object to form.

24 THE WITNESS: I mean I don't know these

1 physicians, I don't know what their experience is, so I  
2 can't tell you. I just look at the medical literature  
3 and look at the study design. I don't really look at  
4 the qualifications or what these physicians credentialed  
5 are or how old they are or how many years they're  
6 working or experience. I look at, you know, what is the  
7 study design. So and based upon the study design, I  
8 say, okay, does this study make sense, and I look at the  
9 results once the materials and method make sense.

10 BY MR. WOOL:

11 Q. So when you look at complication rates for a number of  
12 these studies, you're not necessarily looking to see  
13 whether the physicians meet your definition of  
14 experienced or not?

15 MR. WALKER: Object to form.

16 THE WITNESS: Based upon maybe the  
17 publications, that's the only thing I can look up. I  
18 suppose if you have someone like Daniel Alterman  
19 publishing, so you know, well, at least from the  
20 publication standpoint and the study standpoint, I mean  
21 it's a powerful group, it's a very powerful Nordic  
22 group. So many of these are multi-centric studies, so  
23 now you go through a group which is based out of  
24 Amsterdam and there's this group which is the Withagen/

1 Milani group, then you look at the Nordic group, which  
2 is the Alterman/Elmer group, E-l-m-e-r. So you look at  
3 these groups, you can say, okay, well, these are big  
4 groups, so hopefully you think that, you know, they have  
5 good experience. But, otherwise, it could be a single  
6 person like me, I have a paper out, so nobody can look  
7 at my paper and say is this guy experienced or not, but  
8 they can look at the quality of the study, and they  
9 realize that, well, this is a well done study, there's a  
10 prospective study and patients followed up, you know.

11 BY MR. WOOL:

12 Q. But for your study as an example, could somebody look at  
13 your credentials and say this guy's experienced?

14 A. Yes. Well, they can look it up --

15 MR. WALKER: Objection, form.

16 THE WITNESS: -- on the American Urogynecology  
17 Society website, but I don't know what else further they  
18 can look at.

19 BY MR. WOOL:

20 Q. Now, are you offering a general opinion on dyspareunia  
21 associated with pelvic organ prolapse?

22 MR. WALKER: Could you clarify?

23 MR. WOOL: Sorry, I'll clarify it.

24 Are you offering an opinion that the Prolift

1 does not result in higher rates of dyspareunia compared  
2 with native tissue repairs?

3 THE WITNESS: Prolift does not cause more  
4 dyspareunia than native tissue repairs, that is correct.  
5 In some cases Prolift may have lower risk of  
6 dyspareunia, also.

7 BY MR. WOOL:

8 Q. Okay. And the same question with the Prolift+M?

9 A. Yes.

10 Q. Okay. And what's the basis of that opinion?

11 A. So that was a randomized clinical trial that was again  
12 done by this group from Amsterdam who looked at mesh  
13 versus no mesh, and they found that there was no  
14 difference in the dyspareunia rate in that group.

15 MR. WALKER: I'm sorry to interrupt. Could we  
16 break that down between Prolift and Prolift+M, just so  
17 that it's clear.

18 BY MR. WOOL:

19 Q. Yeah. So the same question with strictly Prolift.

20 A. Yeah. So Prolift, in both Prolift and Prolift+M, my  
21 opinion is that it does not lead to dyspareunia, the  
22 mesh itself, so -- and that is based upon just not my --  
23 it's based upon my experience, what I've read in the  
24 literature and what I've discussed with my colleagues at

1 meetings, and this is very typical. It's, in fact, even  
2 listed in the 2016 Cochrane review by Chris Maher, 2015  
3 Cochrane review, and that -- I think it's 2016, I'm  
4 sorry, it's 2015 or 2016. So in that review, what he  
5 says is that there is nothing specific, in that article  
6 they say that there is no difference in pelvic pain,  
7 dyspareunia, or anything else between the mesh versus  
8 nonmesh. The only thing that they say is exposures  
9 happen in mesh, they don't happen in native tissue  
10 repair.

11 BY MR. WOOL:

12 Q. Okay. And, I'm sorry, the Cochrane review that you're  
13 describing, am I incorrect in thinking that that's the  
14 one that looked at the Prolift+M?

15 A. The 2016?

16 Q. Were you describing the 2016 one?

17 A. The 2016 one.

18 Q. Okay. And --

19 A. Now, I think they looked at Prolift.

20 Q. Okay, that one was Prolift. Okay. So let me see.

21 Sorry, did I ask you about -- the same question with the  
22 Prolift+M?

23 A. Yes.

24 Q. Okay. And same question, are you providing a general

1 opinion on dyspareunia associated with sacrocolpopexy?

2 A. No.

3 Q. Okay.

4 MR. WALKER: Are you asking whether or not  
5 he's going to opine whether there's a greater rate with  
6 that procedure versus -- Prolift or Prolift+M, or  
7 whether or not it can actually happen at all with that  
8 procedure?

9 BY MR. WOOL:

10 Q. Right, so to clarify -- I'll move on to a different --

11 A. The only abdominal sacrocolpopexy paper was the CARE  
12 study, the C-A-R-E study, and in Nygaard I don't know if  
13 they looked at dyspareunia as a variable, so I'm not  
14 sure, that's the only thing I can tell you.

15 BY MR. WOOL:

16 Q. Okay. So --

17 A. N-y-g-a-a-r-d.

18 Q. So I guess, going back, are you offering an opinion as  
19 to the Prolift or Prolift+M and sacrocolpopexy?

20 MR. WALKER: Object to form.

21 THE WITNESS. In what form?

22 BY MR. WOOL:

23 Q. Sorry, okay, let's just strike that and move on. Okay.

24 Are you offering a general opinion on nerve damage

1 associated with pelvic organ repair from a transvaginal  
2 implant?

3 MR. WALKER: Object to form.

4 THE WITNESS: So Prolift/Prolift+M does not  
5 cause nerve damage.

6 BY MR. WOOL:

7 Q. Okay. And what's the basis for that opinion?

8 A. My own experience, because if look at when you -- again,  
9 it's a very wide thing, so what is defined as nerve  
10 damage and what is exactly happening, so it's not that  
11 the mesh itself is causing any problems. And what we  
12 realize is that in my own clinical trials and when we've  
13 seen and followed patients, I've not had any issues  
14 where there has been documented nerve damage, where the  
15 patient has pain running down the legs or numbness or  
16 things like that, nor has it been reported in the  
17 literature, nor has it been -- you know, when I review  
18 with my physician colleagues we have never seen that.  
19 So it's just not only what my own clinical trial, it's  
20 generally accepted that the mesh itself does not cause  
21 nerve damage.

22 Q. Okay. And you don't believe that mesh can cause nerve  
23 innervation, that the mesh can trap nerves and cause  
24 nerve damage?

1 MR. WALKER: Object to form.

2 THE WITNESS: There is no documentation like  
3 that in the literature.

4 MR. WALKER: And, again, when you said mesh,  
5 were you referring to Prolift and Prolift+M?

6 MR. WOOL: Yes.

7 BY MR. WOOL:

8 Q. Okay.

9 MR. WALKER: Want to take a break?

10 MR. WOOL: Yes, I can take a quick break.

11 (A recess was taken from 1:27 a.m. to  
12 1:38 a.m.)

13 BY MR. WOOL:

14 Q. So, Doctor, I want to go back briefly just to the  
15 possible complications associated with either the  
16 Prolift or Prolift+M. Is erosion a possible  
17 complication for let's start with the Prolift?

18 A. So when -- again, I would just like to clarify, erosion  
19 is where the mesh is protruding into the neighboring  
20 viscus, is it exposure, exposure is where the mesh is  
21 protruding into the vagina.

22 Q. Okay. So let's start with protruding into the  
23 neighboring viscus.

24 A. So erosion.



1 Q. Yes.

2 A. So if there is -- you know, the mesh is just placed as  
3 it is. What I believe is that a lot depends upon the  
4 surgical technique. So if the surgical technique  
5 involves where the mesh is not placed appropriately,  
6 then the mesh could penetrate, could erode, could go  
7 into the organ, especially if it is thin. You know,  
8 sometimes when you open up the vagina and you're looking  
9 at the bladder, many a times that the bladder wall looks  
10 very thin. In fact, after I have done the surgery,  
11 whether with or without mesh, when I look inside the  
12 bladder, you may see a little bruising of the bladder  
13 wall, and that is because the wall of the bladder with  
14 prolonged prolapse could be extremely thinned out. And  
15 if that is so, when you lay the mesh, if it's a thinned  
16 out bladder wall, just because you dissect it in that  
17 area, that itself could lead to devascularization, and  
18 because of devascularization, that particular bladder  
19 wall can weaken and break down, and then it may look as  
20 though this mesh is protruding into the vagina. So it's  
21 a factor of several things.

22 One, the main reason why a mesh is used  
23 because of attenuation of the fascial tissue, so the  
24 tissues are very weak. Number two is if the bladder

1 wall is also so thin, then if you're placing it and  
2 operating in that area, that itself can cause blood  
3 vessel damage or devascularization, and that may look as  
4 though it's eroding. So I don't think personally, in my  
5 opinion, the mesh does not go into the bladder and erode  
6 in so that what an erosion is, so it's not, in other  
7 words, it's not an active process of the mesh doing it.  
8 It's more about the anatomy, what happens during the  
9 surgery, and, also, the technique, how was it placed?  
10 You know, was it placed very close to the bladder? Was  
11 it actually in the bladder during the placement, and was  
12 that missed, and then it looks, oh, it eroded  
13 afterwards, but actually it had already gone into the  
14 bladder during the placement.

15 Q. So it's a surgical error?

16 A. It could be that or it could be because of the -- what  
17 happens afterwards, because how the anatomy was. As I  
18 mentioned, literally and sometimes when you're just  
19 touching the bladder and moving the bladder, that can  
20 cause bruising of the bladder from the inside. If  
21 you're looking at the bladder -- so, in other words,  
22 after I finished the repair and everything has gone  
23 great, when I look inside the bladder you can see the  
24 bladder looking bruised. That's because the wall is so

1 thin, and that's why this is prolapsing out, because  
2 there is really no support tissue between the bladder  
3 and the vagina. See, when you have that thick support  
4 tissue, then the bladder is cushioned, but if there is  
5 no support tissue and the mesh is like right against the  
6 bladder, and if that wall is already weak and decides to  
7 break down, that looks as though it's -- so it could be  
8 surgical technique, or it also could be the weakness of  
9 the tissues. What I believe is that the mesh does not  
10 itself actively erode into the bladder.

11 Q. Okay. And the same answer for the Prolift+M?

12 A. And for Prolift+M, and also the same answer for vaginal  
13 exposure. So, for example, vaginal exposure is the  
14 opposite where it is eroding into the bladder, here it  
15 is looking into the vagina, you know, so which is the  
16 main thing that is reported. If you look at under  
17 complications, one of the major complications that has  
18 been reported is mesh exposures. However, what I  
19 believe is that and what has been now understood is it  
20 all depends upon the healing. So no surgeon has had --  
21 has done an operation and made an incision anywhere in  
22 the body and never have that incision separate out at  
23 least a little bit. In abdominal wall it's called wound  
24 separation, which is very common. If you ask any

1 surgeon who has done a laparotomy, almost all surgeons  
2 have had some extent of wound separation. That is a  
3 healing process. It's -- if the vagina somehow decides  
4 not to heal and opens up, then the mesh can be seen, and  
5 that's mesh exposure. So the mesh is laid where it is.

6 So, again, here it could be healing process,  
7 which is a patient micro environment or it could be a  
8 surgical error where it may not have been placed deep  
9 enough, it may have been placed superficial, or the  
10 surgeon may have placed it correctly but the vagina was  
11 just too thin, which is the micro environment of where  
12 it's been placed. So those are the patient factors. So  
13 it's not -- so what I believe is it's not specific to  
14 the mesh, Prolift or Prolift+M. That does not cut  
15 through; it is overall, you know, the patient factors  
16 and the surgical technique.

17 Q. So let's just focus on one of those processes of erosion  
18 that you mentioned, the failure of the healing process.  
19 Now, in that type of situation where erosion is caused  
20 by a failure of the healing process, would you expect to  
21 see erosion happen fairly soon after surgery?

22 A. It varies. So typically if it is more at the incision  
23 site, then it could be there, but if it is over time,  
24 suppose if there is vaginal atrophy happening because

1 the patient is postmenopausal, and if it's happening  
2 over time, then it could manifest later on. So it  
3 doesn't have to be immediately thereafter.

4 Q. So if I'm understanding you correctly, the wound site  
5 atrophies over time?

6 A. The wound does heal, so the incision may have healed, so  
7 you could have the exposure in the vagina, for example,  
8 at different areas. Number one, it could be at the site  
9 of incision or maybe somewhere else. At the site of  
10 incision typically should happen while it's healing.  
11 But if it's anywhere else, it could be the thinning of  
12 the wall of the vagina, which could lead to eventually,  
13 you know, the mesh getting exposed.

14 Q. Okay. And so with the thinning of the wall of the  
15 vagina leading to exposure, if I'm understanding this  
16 correctly, the wall itself would have thinned on its own  
17 and the mesh is essentially just remaining in place?

18 A. Correct.

19 Q. So the mesh is static and the vagina is thinning, and  
20 that's what causes the exposure, correct?

21 A. Yes.

22 Q. I just want to make sure I'm understanding you.

23 A. However, most of the exposures do happen in the  
24 immediate postoperative period. In fact, most of the

1 papers that are published on mesh exposure do state  
2 that, you know, they have happened within the first  
3 year, so it's not that it's going on delayed, though it  
4 has been reported in the literature that you may get  
5 delayed exposure, but most of the exposures if they were  
6 to happen, they would happen within the first 12 months,  
7 if not immediately postoperatively.

8 Q. And exposures happening in the first 12 months, do those  
9 tend to happen at the wound site?

10 A. Most of them are at the wound site, but some could be at  
11 a different area of the vagina, also.

12 Q. And if it's not at the wound site, would you explain  
13 that by thinning of the vaginal wall?

14 A. Yes.

15 Q. Okay. And outside of menopause, what factors cause the  
16 vaginal wall to thin?

17 A. So let's look at two factors, one is a patient factor,  
18 second is the surgeon factor. From the patient factor,  
19 one is the extent of the prolapse, because the larger  
20 the prolapse is, the larger it has been outside, the  
21 more it has got what is known as decubitus ulcers, and  
22 these basically make the vaginal wall fragile and more  
23 vulnerable to healing.

24 Second is has she had any prior surgeries, and

1 prior surgeries, that means it's not well vascularized  
2 because there's usually scar tissue with any surgery,  
3 and that decreases the vascularity, less vascularity,  
4 the increased risk of breakdown.

5 Third is menopausal status, and that again is  
6 because of vaginal atrophy and, also, decreased blood  
7 supply.

8 These -- and then, fourth, are other factors  
9 which lead to vascular insufficiency in the vagina such  
10 as smoking, diabetic vasculopathy from diabetes, these  
11 are two main factors, and, of course, besides menopause.

12 So those are the main patient factors.

13 Then you look at the surgeon factors is,  
14 number one, did the surgeon keep the vaginal wall thick  
15 as described in the Prolift monograph, you know, the  
16 full thickness vaginal dissection, was that performed?  
17 If they did the full thickness vaginal dissection, then  
18 you're less likely to have that problem.

19 Number 2, did she form a hematoma inside? She  
20 may have had some blood collection. Did it collect, and  
21 did that cause the incision to open up?

22 Number 3, did the patient get an infection  
23 postoperatively?

24 So these are the different factors that could

1 result in exposure in the vagina.

2 Q. Okay.

3 A. And these are completely independent of the mesh.

4 Q. Okay. Switching gears, this is probably a little bit  
5 easier, so there are three Prolift kits; correct?

6 A. Yes.

7 Q. Okay. What are the three kits?

8 A. The anterior kit, the posterior kit, and the combined  
9 kit.

10 Q. And will you describe everything that's included with  
11 the kit.

12 A. It's been a long time that I've used it, but it's --  
13 anterior has the anterior mesh and it has got the  
14 trocars to put it in, along with the mesh retrieval  
15 loops, so same thing posterior, as the posterior mesh  
16 has the trocars for delivery and the mesh retrieval  
17 loops, and the combined has it all together, so the  
18 anterior and posterior are in one unit, one whole mesh  
19 piece, and then you have the trocars for the anterior,  
20 the trocars for the posterior, and the mesh retrieval  
21 loops.

22 Q. Okay. And can you just briefly describe the  
23 implantation process generally.

24 MR. WALKER: For Prolift?



1 MR. WOOL: Yes, for Prolift.

2 THE WITNESS: So, first of all, it's -- I'll  
3 be brief, I won't go into whole -- you'll dissect the  
4 vagina after proper hydrodissection, so the key is there  
5 are certain steps that should be followed. Most  
6 important thing is that let's say suppose if I'm putting  
7 in a mesh right now anteriorly, I would dissect after  
8 proper hydrodissection. What that means, proper  
9 hydrodissection meaning that you're putting in this  
10 water, fluid, which could be containing a  
11 vasoconstrictor agent such as epinephrine or  
12 vasopressin. I use Lidocaine with epinephrine. I use  
13 quarter percent Lidocaine with 1 in 400,000 epinephrine.  
14 I inject into this space, what's called a vesicovaginal  
15 space. The way you know that you're in the right plane  
16 is because you will not see blanching of the vaginal  
17 mucosa, means now you know that you're leaving that  
18 vaginal epithelium completely intact and you're going in  
19 between the bladder and the vagina. Once that hydro-  
20 dissection is done, once you make an incision, you open  
21 up the vaginal walls, you dissect sharply into the  
22 paravaginal spaces. And once I get into the paravaginal  
23 space, then what I do is I use a headlight so I know  
24 exactly I'm getting into the paravaginal space, I put my

1 fingers in, and then I make the incisions on the outside  
2 for the passage of the trocars. So one is a superficial  
3 trocar, the other is the deep trocar. One comes out at  
4 the junction of the superior ramus of the pubis and the  
5 body of the pubis. The other one just comes out a  
6 centimeter above the ischial spine. So these are the  
7 two trocars that come out anteriorly. The mesh  
8 retrieval loops are inserted, and the mesh arms are  
9 pulled up.

10 The key thing the monograph alludes to is that  
11 initially when the total vaginal mesh group put this up,  
12 it was this was what was done. Just as you mentioned,  
13 the Information For Use, why as clinicians we just don't  
14 look at it and consider it gospel truth, because since  
15 then we have modified, we want to make sure it's  
16 properly placed, so what the monograph alludes to is  
17 that we now take a stitch on the cervix, we attach the  
18 mesh to the cervix proximally and maybe distally at the  
19 bladder neck so as to -- so the mesh will lay nice and  
20 flat. And once we know that the mesh is nice and flat,  
21 looks good, then the vagina is essentially closed under  
22 it. So that essentially is the anterior.

23 Similarly, we do it posteriorly, the posterior  
24 vaginal mucosa is opened -- you want me to continue with

1           this?

2       BY MR. WOOL:

3       Q.    Yes.

4       A.    So the rectum is dissected off the vagina. We get into  
5           what is known as the pararectal spaces. And then I put  
6           my fingers on the sacrospinous ligament, I get what is  
7           called a Briesky, B-r-i-e-s-k-y Navratel,  
8           N-a-v-r-a-t-e-l retractors, I look at the sacrospinous  
9           ligament, my headlight helps me identify it, put two  
10          fingers on top of the sacrospinous ligament, and that  
11          3 centimeters lateral and inferior or posterior to the  
12          anus and make an incision which is about 3 to  
13          4 millimeters after injecting local. I put the trocar  
14          in. As I'm putting the trocar in I guide it. Now, this  
15          is important, as you mentioned nerve injury, if it is  
16          done correctly, the pudendal nerves are behind the  
17          ischial spine or close by. It is critical to go 2  
18          fingerbreadths medial, two fingerbreadths medial to the  
19          ischial spine, and then with the trocar should come out  
20          through the sacrospinous ligament. And once it emerges  
21          through the meat of the ligament, not behind it, because  
22          if the surgical technique goes in front of it, that's  
23          not good support, you're just going to the levator ani.  
24          And that's -- the IVS tunneler was doing that. If it

1 goes behind it, it could get the inferior gluteal nerve,  
2 and that can cause pain. And, therefore, it has to go  
3 through the meat of that sacrospinous ligament.

4 Once it's there, the mesh retrieval loop is  
5 inserted, loop is pulled out, the trocar is -- or the  
6 needle is removed, we put the mesh arm on each side,  
7 pull the mesh arms out, make sure the mesh lays flat, it  
8 could be attached to the cervix with a prolene thread or  
9 laterally to the uterosacral ligaments at the top, and  
10 at the bottom it's anchored to the pubococcygeus muscle  
11 through a simple little prolene suture. This is so that  
12 the mesh lays nice and flat on top of the rectum.

13 Sometimes I would -- may put the rectal fascia  
14 together, you know, sometimes I don't. In the front I  
15 don't put the fascia together. Here I may do a little  
16 bit of fascial plication at the bottom, then put the  
17 mesh on and then close the vagina.

18 BY MR. WOOL:

19 Q. Okay. So you described using two fingers to measure the  
20 distance from the pudendal nerve. Is the pudendal nerve  
21 located in the same anatomical position in all women?

22 A. There is some variation which could be about a  
23 centimeter variation, I believe, and, in fact, I was  
24 just doing an ultrasound study to see where it was,

1           because we wanted to do a pudendal nerve block, and it  
2           could be a variation where maybe about a centimeter  
3           medial. So most recommendations if you go two  
4           fingerbreadths medial, you should be able to avoid the  
5           nerve.

6       Q.    Okay. Does the Prolift IFU indicate how to place the  
7           mesh tension free?

8                       MR. WALKER: Feel free to refer to it if you  
9           need to.

10                    THE WITNESS: Okay, so let's see, I think the  
11           key, as I mentioned, once we read this, it's ultimately,  
12           you know, what we do, and that is -- I would really  
13           count more on the monograph, and I think most of my  
14           colleagues when we used to go to the summit, they would  
15           count on the monograph more than the IFU. So let's see,  
16           where would that be.

17                    MR. WALKER: And if you can't recall offhand,  
18           that's fine.

19                    THE WITNESS: Well, I don't know if it  
20           specifically states that, I don't see it specifically  
21           but -- they do mention to lay -- if the sutures are  
22           placed -- but I don't know if they specifically state  
23           that.

24

1 BY MR. WOOL:

2 Q. How would you define tension free?

3 A. You know, it is a very interesting way to say that  
4 because there is -- it's basically just laying it  
5 without tacking it as such, so that's what it means. So  
6 what is done is that when you lay it, you know, if  
7 you -- we do tack it to the side, but it's not like some  
8 pulling across, so that word has changed. For example,  
9 the way I do it, I don't think I could call it  
10 completely, I don't say -- it's -- tension free is where  
11 it's placed without tension, let's put it -- let me say  
12 that, so tension free placed without tension, but it  
13 doesn't mean that it's placed without tacking sutures.

14 Q. Okay. Does the Prolift IFU indicate that patients may  
15 need to have multiple surgeries or operations to treat  
16 complications?

17 MR. WALKER: Object to form.

18 THE WITNESS: I'm not sure of that.

19 BY MR. WOOL:

20 Q. Does the IFU indicate that entire mesh removal may not  
21 be possible?

22 MR. WALKER: Object to form.

23 THE WITNESS: I don't think that it's up to  
24 IFU, it's up to mainly physicians to figure out what has

1 to be done.

2 BY MR. WOOL:

3 Q. Okay. Does the IFU indicate that mesh can cause chronic  
4 or severe pain?

5 MR. WALKER: Object to form.

6 THE WITNESS: It does say nerve damage, yes,  
7 it does.

8 BY MR. WOOL:

9 Q. Okay. Does it say that the nerve damage can be  
10 permanent?

11 MR. WALKER: Object to form.

12 THE WITNESS: There is nobody who can say  
13 "yes" or "no." See, this is -- it's very subjective,  
14 you know, what happens afterwards clinically is what's  
15 relevant, and in my practice I've never seen Prolift  
16 ever cause nerve damage which I've even temporarily had  
17 a problem with.

18 BY MR. WOOL:

19 Q. Does the IFU indicate that the Prolift can cause  
20 recurrent urinary tract infections?

21 MR. WALKER: Object to form.

22 THE WITNESS: The IFU, it's -- ultimately it's  
23 up to -- most of -- what you're asking are clinical  
24 questions which are determined by clinical application,

1 so when we use this and what happens in clinical  
2 literature, clinical data, and same thing what is  
3 published, what is written on there. So mesh never --  
4 has not been documented cause a recurrent urinary tract  
5 infections, and I have in my experience never seen a  
6 recurrent urinary tract infections because of mesh.

7 Q. Okay. And is the Prolift currently available in the  
8 market today?

9 A. The Gynemesh is, but the Prolift system is not.

10 Q. Okay. Same question for the Prolift+M?

11 A. It's not available. The Ultrapro is, but the Prolift+M  
12 is not. So the mesh is -- I believe it's -- I'm not  
13 sure, though.

14 Q. And do you know when it was removed from the market?

15 A. I don't recall exactly.

16 Q. Do you know when the Prolift+M was removed from the  
17 market?

18 A. I believe the same time, but I don't know when.

19 Q. Do you know why the products were removed from the  
20 market?

21 A. Yes.

22 Q. Both the Prolift and the Prolift+M?

23 A. Yes.

24 Q. Why is that?



1 MR. WALKER: Object to form.

2 THE WITNESS: And I know this very well

3 because I was at that time using Prolift+M and was very  
4 happy with it. Apparently, you know, at that time, you  
5 know, we had -- when the physicians interacted with Piet  
6 Hinoul, he was the medical director, H-i-n-o-u-l, first  
7 name P-i-e-t, he was the medical director, and he went  
8 to the FDA when FDA was mandating postmarket analysis  
9 studies, and he went to them and he said we have had  
10 enough clinical trials we've already done, and these are  
11 robust clinical trials that have been performed, level 1  
12 evidence with randomized clinical trials. So Prolift  
13 and Prolift+M have been used in thousands of women with  
14 very good results being published, very strong papers  
15 with level 1 evidence. So we have done our due  
16 diligence, and I don't see why we should be subject to  
17 like some others who may not have done that. And FDA  
18 mandated that they had to do it.

19 So there was -- clinical evidence was  
20 absolutely crystal clear amongst the physicians and the  
21 company that it is a phenomenal product. It did great  
22 for improving women's pelvic health, and financially,  
23 you know, the decision was made that it's not -- they  
24 should not be doing these clinical trials, because they

1           had already done it, so it was more of a financial  
2           decision, it was made evident to most of the physicians  
3           who were doing it, because we were very upset as to why  
4           such a good product was being taken off the market when  
5           it was doing phenomenal in our patients. Now, almost  
6           all the physicians were livid when this happened,  
7           because it was -- it's an excellent product and it was  
8           taken away from our women, our patients, but it was a  
9           financial decision that Johnson & Johnson made.

10       BY MR. WOOL:

11       Q.    Okay. Now, what is the difference between the Prolift  
12           and the Prolift+M kit?

13       A.    I don't think there is any difference.

14       Q.    So the only difference is the mesh that's involved?

15       A.    Correct.

16       Q.    And the Prolift+M has the Ultrapro mesh?

17       A.    That is correct.

18       Q.    Aside from that, the Instructions For Use are the same,  
19           to the best of your knowledge?

20       A.    To the best of my knowledge, I think so, and there may  
21           be some more alteration maybe, but overall is the same,  
22           at least from a physician standpoint is the same.

23       Q.    Okay. And the real, the only real difference is the  
24           absorbable Monocryl portion of the mesh?

1 A. And I believe they lengthened the posterior mesh a  
2 little bit, they widened it.

3 Q. And what's the purpose of the Monocryl fiber?

4 A. The Monocryl polyglecaprone 25, it is a material which  
5 is monofilament vicryl. The advantage of being is that  
6 you have a monofilament polypropylene, so monofilament  
7 is single filament, not multi-filament, so concern is a  
8 multi-filament thread/mesh could possibly harbor more  
9 infections because you have small pore size if it's  
10 multi-filament where as monofilament would not. So then  
11 they did not want to use vicryl, so they went with  
12 monofilament vicryl, which is Monocryl, and the Monocryl  
13 disappears over time. The thinking process at that time  
14 of the engineers is that if the fibroblasts and the  
15 encapsulation, you know, the classic foreign body  
16 reaction I mentioned sometime back, as that is  
17 happening, once it goes through its process and by the  
18 time it goes from acute inflammation to chronic  
19 inflammation to, you know, granulation tissue, foreign  
20 body reaction, to encapsulation, that fibroblast, so by  
21 the time the fibroblasts are actually coming in and scar  
22 tissue is forming, the Monocryl is getting dissolved.  
23 So hopefully it just stays there until it's required,  
24 and then it goes away.

1                   That would hopefully increase pore size, and  
2                   it does, it decreases the size of the mesh, so the pore  
3                   size went up from, I believe, 2.4 to 4.1 millimeters,  
4                   and the weight went down from 51 to 30 grams per  
5                   centimeter. So that may have some role. If you have  
6                   less mesh left behind, could that be beneficial; that  
7                   was the premise.

8       Q.     Okay. And are you aware if Ethicon performed any  
9                   premarket clinical testing on the Ultrapro mesh?

10     A.     I am not aware.

11     Q.     Not aware. And do you have an opinion as to whether or  
12                   not the Ultrapro mesh has a foreign body reaction?

13     A.     Every foreign body has a foreign body reaction, so  
14                   Ultrapro mesh also should have a foreign body reaction  
15                   which is selfsustained.

16     Q.     Do you have an opinion as to whether the Ultrapro mesh  
17                   leads to an increased foreign body reaction?

18     A.     I don't think it should make a difference.

19                   MR. WALKER: I'm sorry, when you said  
20                   increased, relative to what?

21                   MR. WOOL: I'm sorry, relative to the  
22                   Gynemesh.

23                   THE WITNESS: To Gynemesh PS.

24

1 BY MR. WOOL:

2 Q. Right. So to clarify, do you have an opinion on whether  
3 or not either -- do you have an opinion whether or not  
4 the Ultrapro mesh causes a different or a more severe  
5 foreign body reaction than the Gynemesh?

6 A. No, I don't.

7 Q. Okay.

8 A. Gynemesh PS.

9 Q. Yes, Gynemesh PS. So do you have an opinion as to  
10 whether the Ultrapro mesh has any sort of different  
11 reaction as it relates to inflammation than the Gynemesh  
12 PS?

13 A. No. I have an opinion that there is no difference.

14 Q. Okay. So I'm going to ask you basically some of the  
15 same questions I asked you about on the warnings on the  
16 Prolift IFU -- sorry, yeah, the Prolift IFU.

17 Does the Prolift+M IFU indicate that patients  
18 may need to have had multiple surgical procedures to  
19 treat complications related to the mesh product?

20 MR. WALKER: Object to form.

21 THE WITNESS: I don't know if that is in the  
22 IFU, but that's something that the clinicians, that we  
23 would be able to decide and determine from literature,  
24 and knowing from what our own experience is, and I have

1           never had that happen, so I have never had to go in for  
2           a Prolift+M and do repeated surgeries for anything for  
3           that matter.

4       BY MR. WOOL:

5       Q.   Does the Prolift+M IFU indicate that multiple or repeat  
6           surgical procedures may still not be able to correct the  
7           complications related to the mesh product?

8                       MR. WALKER: Object to form.

9                       THE WITNESS: See, I think my opinion's mainly  
10           based not that much on the IFU. My opinion is based  
11           upon my experience and my dealing with my colleagues and  
12           discussing with my colleagues and the medical  
13           literature, so from that standpoint it's not been  
14           documented.

15       BY MR. WOOL:

16       Q.   Does the Prolift+M IFU indicate that complete mesh  
17           removal may not be possible?

18                       MR. WALKER: Object to form.

19                       THE WITNESS: It's, again, the same answer.  
20           It's mainly from my experience what I can tell you, I've  
21           never had to remove a mesh, myself personally, I've  
22           never had to remove a mesh completely, I've never had to  
23           explant a mesh, and very few of my colleagues had to  
24           totally explant a mesh, and especially -- and the

1 medical literature states the same. That if it is in  
2 fact -- in fact, the interesting part is even if a mesh  
3 is exposed in the vagina and it is now open to the  
4 micro-environment of the vagina which has its own  
5 bacteria, despite that, it can be expectantly managed.  
6 So not all exposed meshes have to be cut out. So, in  
7 other words, if there was a major concern with infection  
8 or inflammation, we would be trying to cut this exposed  
9 mesh out because it is exposed in the vagina, but more  
10 than -- no matter which study you look at, whether it is  
11 the Abed, A-b-e-d, study, which is the meta-analysis of  
12 complications or in our group you can see that more than  
13 50 percent of the exposed mesh are managed expectantly  
14 without surgical removal, so an explant is almost  
15 unnecessary in most cases.

16 BY MR. WOOL:

17 Q. Okay. Does the Prolift+M IFU instruct how to place the  
18 mesh tension free?

19 MR. WALKER: Object to form.

20 THE WITNESS: It states how to do it, and then  
21 the monogram is the main important document that goes  
22 and explains how this should be placed. But more  
23 importantly is the -- ultimately I think what happens is  
24 like with any other field, it depends upon the surgeon

1 and how the surgeon eventually figures this out and what  
2 is the best technique to do and based upon their  
3 experience.

4 So what I can tell you is from my experience,  
5 I've realized how best to place it, what I need to do,  
6 what are the key things, and then when we discuss as  
7 what -- so monograph is a consortium of physicians,  
8 experienced doctors who came together and put this  
9 information for others to read and as guidelines and  
10 more guidelines from doctors' perspective, as a  
11 surgeon's perspective, that's something that we follow.

12 BY MR. WOOL:

13 Q. The monogram?

14 A. The monogram.

15 Q. Let's see. Does the Prolift+M IFU indicate that the  
16 Prolift may cause chronic dyspareunia?

17 MR. WALKER: Object to form.

18 THE WITNESS: I don't believe that mesh causes  
19 dyspareunia at all. It's the surgical process that is  
20 there, so I don't -- would not look for it.

21 BY MR. WOOL:

22 Q. Okay. Does the IFU for the Prolift+M indicate that the  
23 mesh can cause permanent or severe never damage?

24 MR. WALKER: Object to form.



1 THE WITNESS: A mesh does not cause nerve  
2 damage, so it should not be indicating such. It does  
3 mention that potential risk of nerve damage from the  
4 procedure, which is the vaginal procedure, but the mesh  
5 itself does not cause nerve damage.

6 BY MR. WOOL:

7 Q. Okay. Does the Prolift+M IFU indicate that the mesh can  
8 cause chronic or recurrent urinary tract infections?

9 MR. WALKER: Object to form.

10 THE WITNESS: It is not up to the IFU to  
11 state, I mean it's for us to determine, so it is -- so  
12 what we have seen, it doesn't cause, I've never seen  
13 Prolift+M mesh not as it is reported in literature. So  
14 the fact of the matter is clinically what is relevant,  
15 which is my experience, what's out of the literature,  
16 and what is reviewed by my colleagues, is it does not  
17 cause recurrent urinary tract infections.

18 BY MR. WOOL:

19 Q. So to be clear, the IFU does not indicate that or you're  
20 saying --

21 A. It's what is important for me to base my opinion is my  
22 experience and the experience of what has been out in  
23 the literature. So there is literally -- and as I have  
24 mentioned, the key thing is putting things in

1 perspective, what is the incidence, what's the  
2 likelihood of that happening? And that is -- you know,  
3 this report would not -- and we just look at it what  
4 are -- but that is intuitive, that is something that a  
5 surgeon understands, that when you operate in the  
6 vagina, you know, can this happen? So there is no --  
7 the mesh per se does not cause bladder infections, just  
8 operating in the vagina, can it cause bladder  
9 infections? Actually not. I mean if you think about  
10 it, a patient has vaginal prolapse. The bladder is  
11 hanging outside. So now it's hanging outside. So she  
12 is retaining urine because she can't empty. Because she  
13 is retaining urine, she gets bladder infections. You  
14 put the vagina back inside, the bladder goes inside, now  
15 she can empty her bladder better, she's less likely to  
16 get bladder infections. So what I believe is  
17 Prolift/Prolift+M mesh reconstruction procedure when  
18 done in patients with large anterior vaginal wall  
19 prolapse will actually decrease the incidence of bladder  
20 infections especially by eliminating the stagnant urine  
21 and retention.

22 Q. So I understand your statement that you think that that  
23 warning would be irrelevant, but I think my question's a  
24 little bit more simple, which is simply does the IFU

1 warn of chronic or recurrent urinary tract infections?

2 MR. WALKER: Object to form.

3 THE WITNESS: See, I would tell you

4 clinically, so from the clinical standpoint, I think it

5 doesn't cause it; it, in fact, helps it. That's more

6 relevant, you know, than what my findings or what's out

7 there in literature, what has been published, and no

8 where would you say that urinary tract infections are

9 increased by placement of a mesh or doing this surgical

10 procedure. Even if I -- I think -- I don't think even

11 native tissue repair states that there is increased --

12 would also cause bladder infections.

13 Q. Okay. So, again, I'm not asking for your opinion on  
14 whether or not -- either -- whether or not the Prolift+M  
15 causes chronic or recurrent urinary tract infections or  
16 whether it's relevant to warn against. I'm only asking  
17 whether the IFU warns against chronic or recurring  
18 urinary tract infections.

19 A. But, see, what's more relevant is that IFU is just a  
20 document. It just states whether -- yes or no, you  
21 know, so I don't see a specific word frequent bladder  
22 infections in the IFU.

23 Q. Okay. Can I ask how much time we're at?

24 (An off-the-record discussion was held.)

1 BY MR. WOOL:

2 Q. You mentioned that you follow the monogram and that you  
3 depart from the actual Instructions For Use?

4 MR. WALKER: Object to form, misstates his  
5 testimony.

6 BY MR. WOOL:

7 Q. Okay. So will you describe whether or not you follow  
8 the IFU, I guess, to the T for either the Prolift or the  
9 Prolift+M?

10 A. IFU --

11 MR. WALKER: Object to form.

12 THE WITNESS: If you ask most physicians, IFU  
13 is a document that they look at it, they read it, and  
14 they understand it. Then they ultimately -- their  
15 practice, what they do is determined by what happens  
16 with their peers, what are the colleagues teaching them,  
17 what happens when they go to the cadaver lab, what --  
18 cadaver lab is not just about going and putting a mesh  
19 in the cadaver. It's a whole discussion. You know, the  
20 panel discussion that happens before that, where you  
21 look at your peers that you respect, and they tell you  
22 their experience, what is the science behind it, you  
23 learn all these things. That all is very important.  
24 Then you read literature what has been published on this

1 product. That is more important to physicians. It's  
2 almost akin to a manual that you get with a product, you  
3 know, whether you get your iPhone or anything else, you  
4 get instruction manual. Now, how many people actually  
5 go through the whole manual? So this is important as a  
6 guidance, but what we really count on is my colleagues  
7 and what we have experienced, if, let's say Prolift+M,  
8 and I have already used Prolift, so I know what to  
9 expect from the surgical standpoint, and I understand  
10 when I moved to Prolift+M, you know, did I look at the  
11 IFU? Yes, but was I reading it and memorizing it? No,  
12 because once I read it I understood it. Then what  
13 matters is what are the publications, what is happening?  
14 What is the clinical science that is coming out with  
15 this particular product and its application in the  
16 pelvic floor. And that has significant more relevance  
17 to my colleagues and to myself than the IFU so.

18 BY MR. WOOL:

19 Q. Do you think the IFU should change as the literature  
20 changes?

21 MR. WALKER: Object to form.

22 THE WITNESS: It's impossible for the IFU to  
23 keep all this literature. It's for us to understand  
24 what is happening, and then there are so many elements

1 to that. One is medical literature, that means you're  
2 reading what's published, then conferences, discussions,  
3 networking, and personal experiences. All those form  
4 the basis of a physician's decision to proceed in which  
5 manner. That is the crux. That is what we as surgeons  
6 and we as physicians go by. Ultimately, ultimately more  
7 than any of this is our patient. You know, the patients  
8 I've operated on, what does she come back and say? How  
9 has she been doing? What are the outcomes we are  
10 seeing? And if we see nothing but phenomenal outcomes,  
11 there's nothing else that can detract from that. It's  
12 ultimately the patients who matter.

13 BY MR. WOOL:

14 Q. So how does your own practice involving the Prolift  
15 differ from the IFU?

16 A. I don't think it differs. It's just that I go over that  
17 information with the patient in proper perspective. You  
18 know, the IFU has the information, it is proper, it has  
19 all the stuff that is there, but that's not for a  
20 patient. Like, for example, it may say nerve damage.  
21 The patient doesn't understand what's nerve damage. I  
22 have to explain what that means if at all it were to be  
23 relevant from the vagina surgical standpoint, not the  
24 mesh standpoint. So the way I would explain is I put

1 things more in perspective by giving them the likelihood  
2 of that happening. Now, that is more tangible to a  
3 person than just stating. That's the only difference I  
4 would say, the IFU is complete, it has the stuff, but it  
5 doesn't have what I would consider as -- you know, from  
6 when we talk to our patient, we tell them what is the  
7 likelihood of that happening, so that's the main  
8 difference.

9 Q. So I think I'm asking a slightly different question.  
10 I'm asking does your own surgical procedure differ from  
11 the IFU?

12 MR. WALKER: For which product?

13 MR. WOOL: For the Prolift.

14 THE WITNESS: The only -- when I used to do  
15 that, of course now it's not available, when I was doing  
16 that, the only difference is that it's similar to the  
17 monogram, and I would tack it to the cervix. I don't  
18 think the IFU states that you need to tack it to the  
19 cervix or put those side -- onto the muscle so that the  
20 mesh does not roll, it remains nice and flat. So that's  
21 where we evolve. And the beauty of the surgical  
22 technique is that we get better and better, you know, as  
23 we keep doing these cases, as we see our outcomes and  
24 our results.

1 BY MR. WOOL:

2 Q. Okay. And is your technique the same for the Prolift+M?

3 A. Yes.

4 Q. Okay. And does it differ in the same way for the  
5 Prolift+M IFU?

6 A. Yes.

7 Q. Okay. I think that's about it for me. Have anything?

8 MR. WALKER: I have nothing.

9 (The deposition was concluded at 2:17 p.m.)

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CERTIFICATE OF NOTARY

STATE OF MICHIGAN

)

) SS

COUNTY OF OAKLAND

)

I, Laurel A. Frogner, Certified Shorthand Reporter,  
a Notary Public in and for the above county and state,  
do hereby certify that the above deposition was taken  
before me at the time and place hereinbefore set forth;  
that the witness was by me first duly sworn to testify  
to the truth, and nothing but the truth, that the  
foregoing questions asked and answers made by the  
witness were duly recorded by me stenographically and  
reduced to computer transcription; that this is a true,  
full and correct transcript of my stenographic notes so  
taken; and that I am not related to, nor of counsel to  
either party nor interested in the event of this cause.

Laurel A. Frogner, CSR-2495, RMR, CRR

Notary Public,

Oakland County, Michigan

My Commission expires: 4-22-2022

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2 ACKNOWLEDGMENT OF DEPONENT

3

4 I, \_\_\_\_\_, do

5 hereby certify that I have read the

6 foregoing pages, and that the same is

7 a correct transcription of the answers

8 given by me to the questions therein

9 propounded, except for the corrections or

10 changes in form or substance, if any,

11 noted in the attached Errata Sheet.

12

13

14 \_\_\_\_\_

15 SALIL KHANDWALA, M.D.

DATE

16

17

18 Subscribed and sworn

to before me this

19 \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

20 My commission expires:\_\_\_\_\_

21

\_\_\_\_\_

22 Notary Public

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